

EXPANDED SITE PLAN

SCALE: 1"= 100'

SITE & PARCEL DATA

LEGAL DESCRIPTION: TRACT P-801 OF THE PLAT OF "REDMOND RIDGE DIVISION 8 - A MASTER PLAT" AS RECORDED IN VOLUME 208 OF PLATS, PAGES 68 THROUGH 90, INCLUSIVE, UNDER RECORDING NO. 20021001000271, RECORDS OF KING COUNTY, WASHINGTON.

PARCEL NUMBER: 720232-0210

SITE ADDRESS: 22915 NE ALDER CREST DRIVE, REDMOND, WA

TOTAL SITE AREA: 435,642 SQ. FT. (APPROX. 10 ACRES)
PROJECT SITE AREA: 2.95 ACRES
AREA IN NATIVE VEGETATION: NO CHANGE FROM ORIGINAL PERMITTED PROJECT

PARCEL BUILT OUT (%): NO CHANGE

SECTION/TOWNSHIP/RANGE: SW-34-26-6

ZONE: UR-P-SO

VERTICAL CONTROL AND DATUM TABLE (NAVD 88)

SOURCE OF DATA: SURVEY CONTROL POINT STANDARD DATA SHEET, PUBLISHED BY THE WGS SURVEY DATA WAREHOUSE

REFERENCE BENCHMARK:
POINT DESIGNATION: 836
4" SQUARE CONCRETE MONUMENT WITH 2" BRASS DISK IN A STANDARD MONUMENT CASE IN THE CENTER OF CUL DE SAC ON 220TH PLACE NE
ELEVATION: 541.95' (HELD)

ONSITE BENCHMARKS:

POINT DESIGNATION: CONTROL POINT # 1
PK NAIL WITH WASHER STAMPED "DOWL CONTROL", (SEE SHEET C1.0)
ELEVATION: 599.90

POINT DESIGNATION: CONTROL POINT # 2
PK NAIL WITH WASHER STAMPED "DOWL CONTROL", (SEE SHEET C1.0)
ELEVATION: 600.53

HORIZONTAL CONTROL AND DATUM TABLE (NAD 83-91)

SOURCE OF DATA: SURVEY CONTROL POINT STANDARD DATA SHEET, PUBLISHED BY THE WGS SURVEY DATA WAREHOUSE

OFFSITE CONTROL POINTS:

POINT DESIGNATION: 836
4" SQUARE CONCRETE MONUMENT WITH 2" BRASS DISK IN A STANDARD MONUMENT CASE IN THE CENTER OF CUL DE SAC ON 220TH PLACE NE
NORTHING: 256,432.807 (HELD)
EASTING: 1,341,880.657 (HELD)

POINT DESIGNATION: 1484
4" SQUARE CONCRETE MONUMENT WITH 2" BRASS DISK IN A STANDARD MONUMENT CASE IN THE CENTER OF CUL DE SAC ON 219TH COURT NE
NORTHING: 253,534.1467 (HELD)
EASTING: 1,341,479.09 (HELD)
NORTHING: 253,533.97 (MEASURED)
EASTING: 1,341,479.07 (MEASURED)

ONSITE CONTROL POINTS:

POINT DESIGNATION: CONTROL POINT # 4
4" SQUARE CONCRETE MONUMENT WITH 3" BRASS DISK IN A STANDARD MONUMENT CASE AT THE INTERSECTION OF REDMOND RIDGE DRIVE NE AND NE ALDER CREST DRIVE (SEE SHEET C1.0)
NORTHING: 254,772.97
EASTING: 1,344,315.44

POINT DESIGNATION: CONTROL POINT # 5
4" SQUARE CONCRETE MONUMENT WITH 2" BRASS DISK IN A STANDARD MONUMENT CASE AT THE INTERSECTION OF REDMOND RIDGE DRIVE NE AND NE 102ND STREET (SEE SHEET C1.0)
NORTHING: 253,835.80
EASTING: 1,344,699.59

SHEET INDEX

CIVIL ENGINEERING SHEETS

C0.0 - COVER SHEET
C0.1 - GENERAL NOTES
C1.0 - EXISTING CONDITIONS - OVERALL
C2.0 - TESC & DEMO - OVERALL
C2.1 - TESC DETAILS
C4.0 - SITE PLAN - OVERALL
C4.1 - SITE PLAN - NORTH
C4.2 - SITE PLAN - SOUTH
C4.3 - SITE CIVIL DETAILS & NOTES
C5.0 - GRADING & DRAINAGE - OVERALL
C5.1 - GRADING & DRAINAGE - NORTH
C5.2 - GRADING & DRAINAGE - SOUTH
C5.3 - STORM DRAINAGE PROFILES
C5.4 - DRAINAGE DETAILS AND NOTES

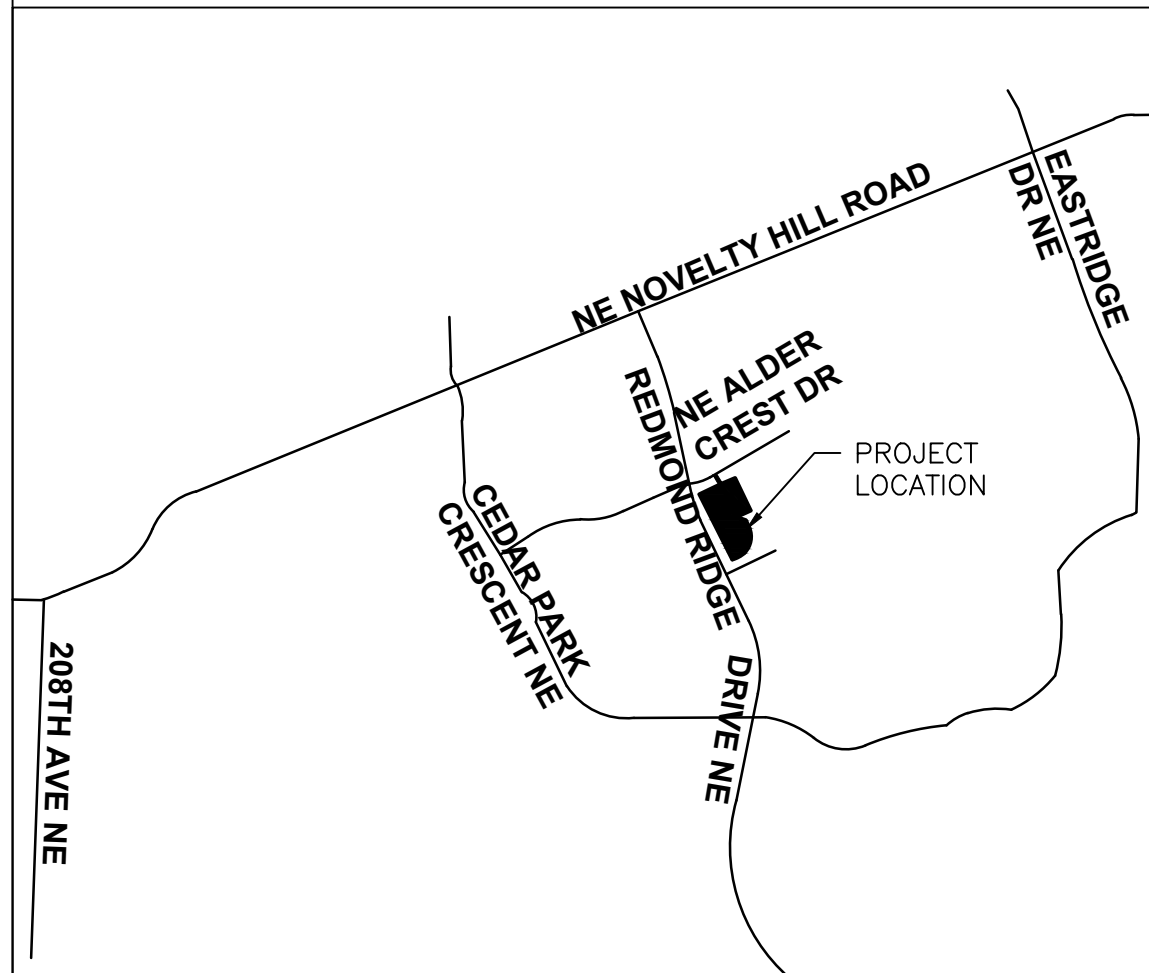
LANDSCAPE ARCHITECTURE SHEETS

L1.0 - IRRIGATION RENOVATION - OVERALL
L2.0 - FIELD LAYOUT
L3.0 - FENCING & PAVEMENT PLAN
L3.1 - FENCING DETAILS
L3.2 - DUGOUT DETAILS
L4.0 - LANDSCAPE RESTORATION

KING COUNTY DDES APPROVAL	
Review Engineer	Date
Senior Engineer	Date
Molly A. Johnson, P.E. DEVELOPMENT ENGINEER	Date

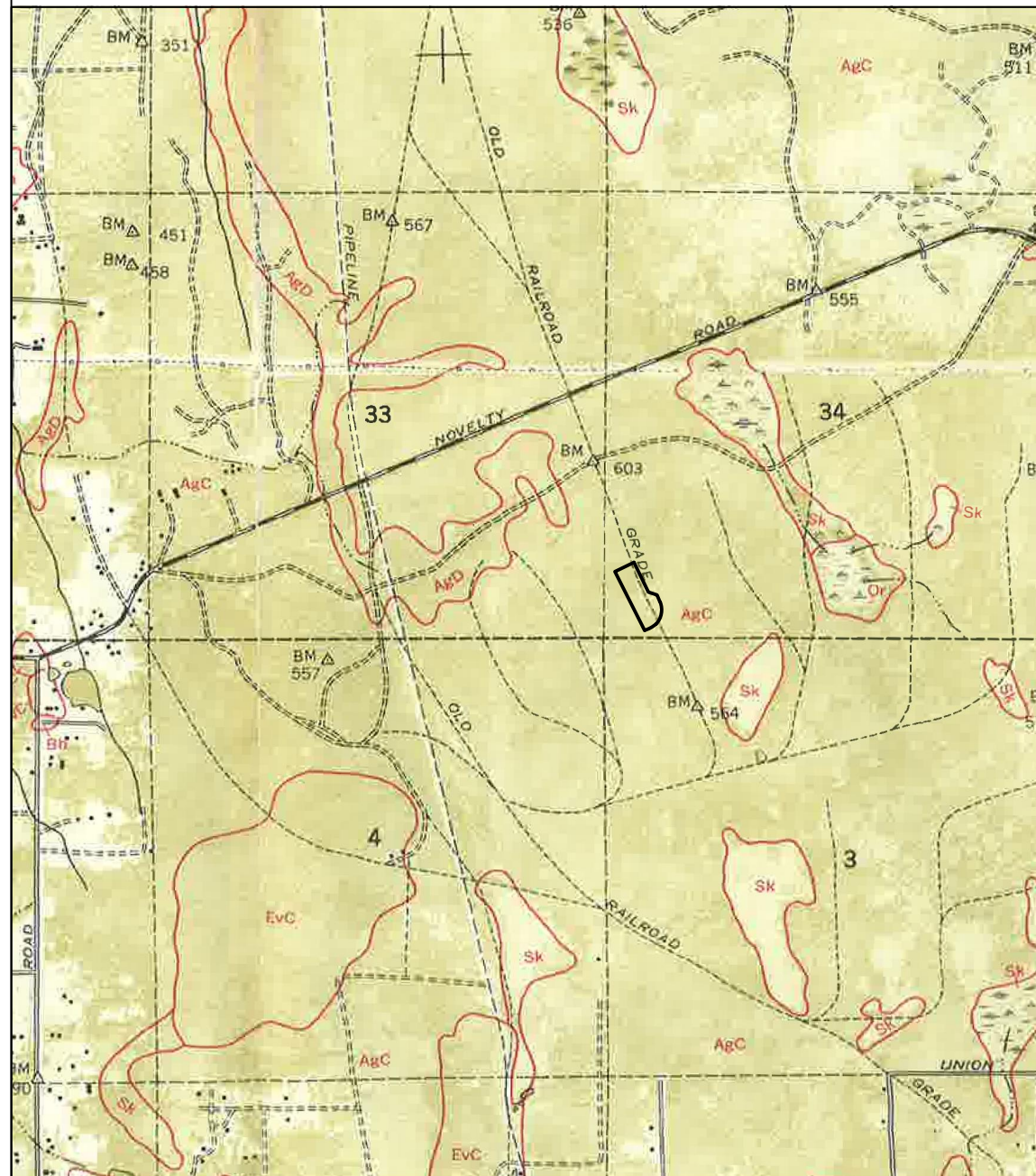
Vicinity Map

Scale 1"=2000'



Soils Map

Scale 1"=2000'



Notice Required

Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days, but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

CITY OF REDMOND	Phone
Sanitary Sewer	425-556-2840
CITY OF REDMOND	425-556-2840
Water District	
PUGET SOUND ENERGY	(425) 456-2418
Gas Company	
PUGET SOUND ENERGY	(425) 462-3407
Power Company	
Call Before You Dig	DIAL-A-DIG 1-800-424-5555

Notes

- The Developer is required to notify the Land Use Services Division, Land Use Inspection Section (206) 296-6642, three days prior to the beginning of construction for a preconstruction conference and specifically request inspection before beginning:
A. Installing siltation and erosion control measures
B. Clearing and grubbing
C. Earthwork
D. Installation of any underground utility
E. Before placing subbase, base or paving surfaces
F. Installation of any forms or placing any concrete
- A permit must be obtained from the office of the Resident Engineer, Washington State Department of Transportation, before any construction is started on any existing state route.
- A Hydraulic Project Approval (HPA) Permit must be obtained from the Washington State Department of Fisheries prior to any work when required.

Bonding Information

Restoration Bond Amount \$

Performance Bond Amount \$

Site Plan Approval

Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way.

Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval.

Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.

PRO RATA SHARE ASSESSMENT ANALYSIS (County Use Only)

Section	Township	Range	Tax Parcel	Number
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Site Location is within the _____ drainage shed(s)
Pro Rata Share Assessment(s) are: ☐ Required ☐ Not Required
from the site due to development for increased storm water runoff.
Peak Runoff Assessment Rate(\$) per c.f.s. increases.(10 year, 2 hour storm)
Peak Volume Assessment Rate(\$) per Ac. Ft. increases.(2 year, 2 hour storm)

AGREEMENTS, PLAN REFERENCES, PERMITS ETC. (To be completed by Consultant)

Preliminary Plat Approval/Permit Issued Date: N/A

Expiration Date: N/A

Other Related Permit Numbers Received:

Right-of-Way Use Permit N/A

Grading TBD

Building/Structural N/A

Other N/A

Board feet of tree removal on site: 0

Cubic yards of material hauled on/off the site: TBD

Is this a highly sensitive area site? (Yes/No): NO

Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

Emergency 911

Police-Fire-Rescue

RECOMMENDED FOR APPROVAL (To be completed by King County)

Date	
Review Engineer	
Senior Engineer	
Traffic & Planning Engineer	
Sensitive Areas	
Structural Review Engineer	
Other	



APPROVED FOR CONSTRUCTION DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

Date Molly A. Johnson, P.E.
Development Engineer

PROJECT CONTACT INFORMATION (To be completed by Consultant)

Applicant Contract Owner Lease	REDMOND NORTH LITTLE LEAGUE	206-890-8260
	Name	Phone
Ownership Owner Trustee	13810 217th PL NE WOODINVILLE WA 98077	
	Name	Phone
Certified Surveyor or Engineer	201 S. JACKSON ST. SEATTLE, WA 98104	
	Name	Phone

☐ A Partnership
☐ An Individual

☒ A Corporation
☐ A Partnership
☐ An Individual

DDES FILE NUMBERS:

Activity Number:

Project Number:

Development No:

License/Seal

C0.0

REDMOND RIDGE
FIELD CONVERSION
22915 NE ALDER CREST DRIVE - REDMOND, WA

DOWL HKM
REDMOND, WA 98052
TEL: (425) 868-2670
FAX: (425) 868-2670
CHRIS KOVAC, P.E.
Project Coordinator
Phone (425) 869-2670

1. MANDATORY PRE-CONSTRUCTION MEETING WITH OWNER AND KING COUNTY DDES.
2. FLAG OR FENCE CLEARING LIMITS.
3. POST NOTICE OF CONSTRUCTION ACTIVITY SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
4. INSTALL CATCH BASIN PROTECTION IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE ANTICIPATED MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED EROSION METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
8. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. ADDITIONAL QUARRY SPALLS SHALL BE PROVIDED AND PLACED AS NECESSARY TO MAINTAIN PROPER FUNCTION OF CONSTRUCTION ENTRANCES.
12. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DOES INSPECTOR. THE DOES INSPECTOR CAN REQUIRE SEEDED OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

15. ALL PUBLIC AND PRIVATE ROADS AFFECTED BY THE PROJECT SHALL BE CLEANED ON A REGULAR BASIS. FLUSHING WITH WATER IS NOT ALLOWED.

1. TEMPORARY STOCKPILE NOTES DO NOT APPLY TO THE PROPOSED SHORT-TERM STOCKPILE AND EMBANKMENT AREAS OF THIS PROJECT. SHORT-TERM STOCKPILE AND EMBANKMENT AREAS SHALL BE SEED OR OTHERWISE APPROPRIATELY STABILIZED AS NECESSARY TO MEET ESC LIMITATIONS.
2. BECAUSE THE SITE IS FLAT AND UNDERLAIN BY HIGHLY INFILTRATE SOILS, CONSTRUCTION OF INTERCEPTOR SWALES/DIKES WITH ROCK CHECK DAMS SHALL BE USED ONLY IF SITE STORMWATER BEGINS TO POND OR OTHERWISE DEGRADES SITE CONDITIONS SUCH THAT OTHER WORK OR SURROUNDING AREAS MIGHT BE ADVERSELY AFFECTED.
3. CLEARING LIMITS ARE DEFINED BY THE SHOWN LOCATIONS AND ALIGNMENTS OF TEMPORARY SITE FENCE AND SILT FENCE.
4. CONTRACTOR IS RESPONSIBLE FOR FINALIZING THE DEPARTMENT OF ECOLOGY SWPPP AND MEETING ALL ECOLOGY PROJECT REQUIREMENTS.

THESE TEMPORARY STOCKPILE NOTES DO NOT APPLY TO SHORT-TERM, ORGANIC MATERIAL STOCKPILE AND PROPOSED SITE EMANKMENTS. OTHER TEMPORARY STOCKPILING MAY BE PERMITTED IF THE FOLLOWING CONDITIONS ARE MET:

1. A SIGNIFICANT AMOUNT OF MATERIAL WOULD BE REQUIRED TO BE REMOVED FROM THE SITE, AND THEN RETURNED, CAUSING IMPACTS TO PUBLIC STREETS.
2. THE MATERIAL CAN BE STORED ONSITE IN AN AREA PLANNED FOR LATER CLEARING.
3. EACH TEMPORARY STOCKPILE LOCATION (SITE) HAS A SLOPE OF 10% OR LESS.
4. THE TEMPORARY STOCKPILE WILL HAVE MINIMUM, OR APPROVED, VISUAL IMPACT ON THE SURROUNDING AREA. PROXIMITY OF PUBLIC AREAS TO TEMPORARY STOCKPILE AREA WILL DETERMINE THE SIZE AND HEIGHT PERMITTED. NO TEMPORARY STOCKPILING OVER 8 FEET WILL BE PERMITTED.
5. STOCKPILE WILL BE TEMPORARY. DURATION NOT TO EXCEED PERMITTED CONSTRUCTION ACTIVITY.
6. TEMPORARY STOCKPILE AREAS SHALL BE COVERED WITH VISQUEEN PLASTIC (MINIMUM 6 MIL) WHEN NOT IN USE. VISQUEEN IS TO BE HELD DOWN BY A MINIMUM OF 10 LB. SAND BAGS PLACED ON A 15-FOOT GRID AND ALONG THE EDGES OF THE PILE.

- ALL CLEARING AND GRADING WORK SHALL MEET THE REQUIREMENTS OF THE 2009 EDITION OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
2. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE COUNTY CONSTRUCTION DIVISION, AND ALL REQUIRED PERMITS MUST BE APPROVED PRIOR TO START OF CONSTRUCTION.
3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND PROPERLY OPERATING PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED AND AUGMENTED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETE AND THE PROJECT SITE HAS BEEN STABILIZED.
4. DEPENDING UPON SITE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE COUNTY CONSTRUCTION INSPECTOR. WORK PERFORMED DURING THE RAINY SEASON, OCTOBER 1ST THROUGH APRIL 30TH, SHALL REQUIRE A PHASING PLAN TO LIMIT THE EXTENT OF SOIL EXPOSURE AND SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF AN APPROVED PROJECT WET WEATHER PLAN.
5. AT THE DISCRETION OF THE COUNTY, WORK MAY BE SUSPENDED DURING PERIODS OF INCLEMENT WEATHER TO REDUCE ACTUAL OR POTENTIAL EROSION AND/OR SEDIMENTATION.
6. WHEN WORK IS STOPPED OR COMPLETED IN AN AREA, THE COUNTY CONSTRUCTION INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL, INCLUDING SEEDING, OTHER STABILIZING MEASURES, AND/OR OTHER BMPs.
7. ALL WATER RUNOFF FROM ANY CONSTRUCTION SITE BEING DISCHARGED TO A PUBLIC STORMWATER SYSTEM SHALL NOT EXCEED A TURBIDITY LIMIT VALUE OF 50 NTU'S, AND SHALL ALSO MEET THE REQUIREMENTS OF THE CLEAN WATERS ACT 1972, WASHINGTON ADMINISTRATIVE CODE 173, AND RCW 90.48.
8. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE BASED UPON INFORMATION PROVIDED BY OTHERS AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL EXACT LOCATIONS TO AVOID DAMAGE, INJURY, AND/OR DISTURBANCE.
9. CONTRACTOR SHALL MAINTAIN OFF-SITE STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. CLEANING OF IMPACTED STREETS SHALL BE VIA SWEEPING.
10. ALL GROUND COVER IS TO REMAIN UNDISTURBED OUTSIDE OF CLEARING LIMITS.
11. FLOWS FROM IMPERVIOUS SURFACES (ROOF, STREETS, DRIVEWAYS, ETC.) SHALL BE CONNECTED TO A DRAINAGE SYSTEM AS SOON AS POSSIBLE.
12. CLEARING LIMITS SHALL BE FIELD LOCATED AND FENCED WITH A MINIMUM 36-INCH HIGH ORANGE SAFETY FENCE SUPPORTED BY WOOD OR METAL POSTS.
13. TREES TO REMAIN (SEE SITE CLEARING, VEGETATION AND MITIGATION PLAN) SHALL BE MARKED WITH FLAGGING, AND FENCED AT 5 FEET OUTSIDE OF THE DRIP LINE WHEN ADJACENT TO AREAS TO BE CLEARED. SEE DETAIL ON SHEET C1.03.
14. TRUCK AND VEHICULAR WHEEL WASHES SHALL BE REQUIRED IF DEEMED NECESSARY BY THE COUNTY.
15. EXACT ALIGNMENTS AND LOCATIONS OF TESC MEASURES SHOWN ON THE PLANS MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE PHASING AND CONSTRUCTION SEQUENCE AND PROGRESS, PROVIDE THE REQUIREMENTS AND INTENT OF THIS PLAN AND APPLICABLE JURISDICTIONAL REQUIREMENTS ARE MET.

THE FOLLOWING NOTES APPLY TO THE PROJECT WHEN WORK CAN NOT PROCEED AND MEET PROJECT ESC REQUIREMENTS, OR IF PROJECT WORK IS TO BE STOPPED AND NOT RESUMED UNTIL THE RAINY SEASON. WORK MAY PROCEED IN THE RAINY SEASON PROVIDED ALL ESC REQUIREMENTS ARE MET.

1. ALL UTILITY WORK IN PROGRESS SHALL BE CAPPED AND TRENCHES BACKFILLED.
2. ALL EXCAVATION OR FILL WORK SHALL CEASE, PROVIDED CUT AND FILL SLOPE GRADIENTS ARE WITHIN DESIGN GUIDELINES, IF NOT THEY WILL BE QUICKLY CORRECTED PRIOR TO CESSATION OF WORK.
3. ALL EXPOSED SOILS, INCLUDING STOCKPILES, SHALL BE STABILIZED UTILIZING A MINIMUM OF 4-INCHES OF MULCH, VISQUEEN, EROSION CONTROL BLANKETS OR A COMBINATION OF THESE METHODS AS SUITABLE FOR THE CONDITIONS.
4. OPEN EXCAVATIONS, WHERE WATER COULD ACCUMULATE OVER 18" DEPTH, SHALL BE SURROUNDED BY ADDITIONAL SAFETY FENCING IN ADDITION TO THE FENCING AROUND THE SITE PERIMETER FENCING.
5. IF ALL WORK IS SUSPENDED, TEMPORARY MEASURES SHALL BE IMPLEMENTED TO STABILIZE ALL UNCOMPLETED PORTIONS OF STRUCTURES FROM COLLAPSE OR OTHER DAMAGE.

1. WATER WILL ACCUMULATE IN THE STILLING BASIN OR THE STILLING BASIN EXCAVATION.
2. WITH ONSITE SOIL STABILIZED, AND HIGHLY INFILTRATIVE, LITTLE OR NO TURBIDITY IS ANTICIPATED. THE PERMANENT OUTFALL FROM THE FILTER SWALE SYSTEM WILL BE UTILIZED.

1. THE BMP'S SHALL BE INSPECTED WEEKLY AS WELL AS DURING AND AFTER ANY MAJOR STORM EVENT.
2. ANY NECESSARY CORRECTIONS TO THE BMP'S SHALL BE IMPLEMENTED WITHIN 24 HOURS OF THE INSPECTION.
3. IN THE EVENT THAT WATER IS LEAVING THE SITE IN EXCESS 50 NTU'S OR IN EXCESS OF 5 NTU'S ABOVE BACKGROUND TURBIDITY, OR HAVE IN EXCESS OF 5% INCREASE WHERE THE BACKGROUND EXCEEDS 50 NTU'S, IMMEDIATE ACTION SHALL BE TAKEN BY THE CONTRACTOR TO CORRECT THE CONDITION. THAT ACTION SHALL INCLUDE PUMPING FLOWS INTO A PASSIVE FILTRATION SYSTEM.

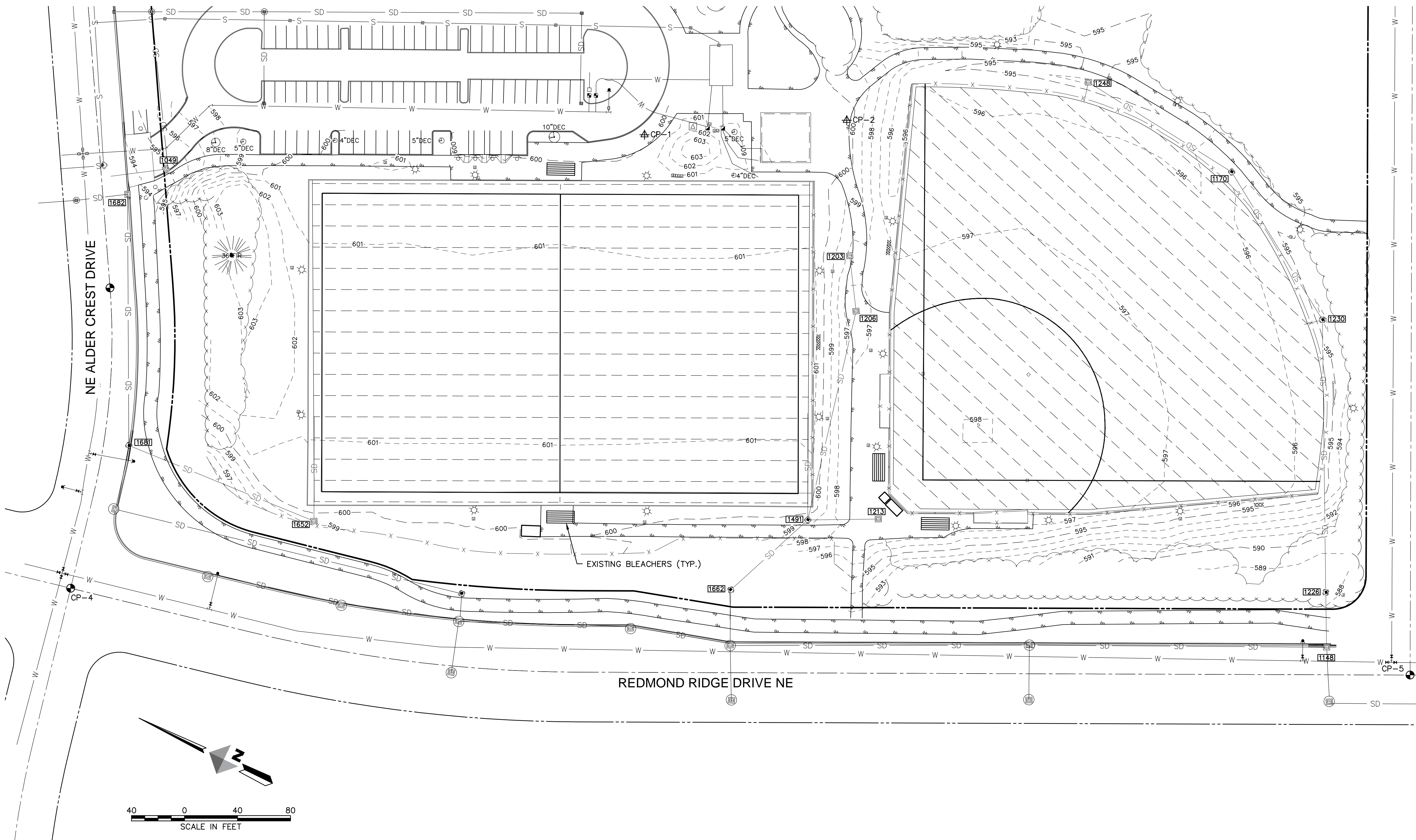
1. READ ALL NOTES AND REVIEW ENTIRE PLAN SET PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. ESTABLISH EXACT PROJECT BOUNDARIES PRIOR TO COMMENCEMENT OF WORK, AND RECONFIRM BOUNDARY LINES WHEN COORDINATING WITH NEIGHBORING PROPERTY OWNERS.
3. NO EXCAVATION, GRADING OR OTHER SOIL DISTURBING ACTIVITIES SHALL BE PERFORMED UNTIL THE PROJECT GRADING PERMIT HAS BEEN ISSUED AND ALL TESC MEASURES HAVE BEEN COMPLETELY INSTALLED.
4. UTILITIES SHOWN IN THIS DRAWING SET ARE BASED ON INFORMATION PROVIDED BY OTHERS. INFORMATION SHOWN SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
5. ORDNATE ALL APPLICABLE WORK ACTIVITIES WITH APPROPRIATE REPRESENTATIVES OF ADJACENT NEIGHBOR PROPERTIES. OBTAIN PERMISSIONS AS NECESSARY TO PROPERLY AND SAFELY COMPLETE WORK. PROTECT NEIGHBOR PROPERTY AND ITEMS FROM DAMAGE DUE TO PROJECT RELATED EVENTS AND ACTIVITIES.
6. PROTECT ALL TESC FEATURES, ITEMS, AND SYSTEMS FROM DAMAGE. MAINTAIN THEIR PROPER FUNCTION THROUGHOUT THE PROJECT.
7. COORDINATE STOCKPILE LOCATIONS WITH OWNER. SECURELY COVER STOCKPILES WITH PLASTIC SHEETING. SECURE ALL STOCKPILE COVERS AGAINST WIND, RAIN, AND OTHER DISTURBANCE BY THE ELEMENTS AND/OR OTHER FORCES.
8. REMOVE ALL LANDSCAPING ITEMS AND VEGETATION NOT INDICATED FOR RETENTION. REMOVE ALL OTHER MISCELLANEOUS ITEMS, INCLUDING BUT NOT LIMITED TO FENCE POSTS, WOOD, METAL, FENCING, RUBBISH, AND OTHER WASTE ITEMS.
9. MAINTAIN FULL OPERATION OF PUBLIC ROADWAYS. KEEP CLEAN AND FREE OF DEBRIS, DIRT AND OTHER PROJECT RELATED ITEMS. SWEEP AS NEEDED TO MEET PROJECT REQUIREMENTS. COORDINATE WITH OWNER AND KING COUNTY ALL DISRUPTIONS TO SERVICES. REPAIR ALL DAMAGE TO MATCH EXISTING CONDITIONS.
10. GRADE SITE SUBGRADE TO BE UNIFORMLY AND EVENLY GRADED SUCH THAT POSITIVE AND CONTROLLED DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE PROJECT TESC (SWPP) PLAN AND THE PROJECT GRADING PLAN.
11. REMOVE FROM THE SITE AND PROPERLY DISPOSE OF ALL PROJECT WASTES, SPOM AND RUBBISH IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. OBTAIN ALL PERMITS NECESSARY FOR PROPER AND LEGAL DISPOSAL.
12. CONTRACTOR IS RESPONSIBLE FOR CONTRACTOR'S OWN QUANTITY ESTIMATES.

1. THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY DDES PRIOR TO CONSTRUCTION (KCC 16.04, 16.70, 14.20).
2. ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES IN COUNTY ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH KCERS DRAWING NUMBERS 5-004, 5-005, 5-006, AND 5-007. ROCKERIES OUTSIDE OF ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE..

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE KING COUNTY COUNTY (KCC), KING COUNTY ROAD STANDARDS (KCRS), KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM) AND THE CONDITIONS OF PRELIMINARY SUBDIVISION APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF DEVELOPMENT AND ENVIRONMENTAL SERVICES (DDES) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DDES PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
3. APPROVAL OF THIS ROAD, GRADING, AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G., DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.).
4. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DDES LAND USE INSPECTION SECTION, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. CONSTRUCTION NOISE SHALL BE LIMITED IN ACCORDANCE WITH KING COUNTY CODE (SECTION 12.88); NORMALLY, THIS IS 7A.M. TO 10 P.M. ON WEEKDAYS AND 9 A.M. TO 10 P.M. ON WEEKENDS.
7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHT-OF-WAY.
8. FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEETS ALL REQUIREMENTS OF KCRS CHAPTER 8 IS SUBMITTED TO THE DDES LAND USE INSPECTION SECTION THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE 1988 UNLESS OTHERWISE APPROVED BY DDES.
10. GROUNDWATER SYSTEM CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL GROUNDWATER SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION B1 3.02 OF THE APWA STANDARD SPECIFICATIONS.
11. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY.
12. ALL ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY (WSDOT 2-06.3).
13. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DDES AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS 8.03(B)3.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELER'S RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. SECTION 1-07.23, TRAFFIC CONTROL, OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.

[illegible]

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EXISTING CONDITIONS NOTES

1. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONS ARE APPROXIMATE.

2. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.

STORM DRAIN REFERENCE TABLE			
SYMBOL	DESC	SIZE	ELEV
[1049]	D CB	RIM	594.69
	IE NW	12" CPEP	591.49
	D CB	RIM	586.78
[1148]	D MH	RIM	596.31
	IE N	8" PVC	588.69
	IE SW	8" PVC	588.59
[1203]	D YD	RIM	596.99
	IE SW	6" PVC	595.96
	D CB	RIM	596.42
[1206]	IE NE	6" PVC	594.28
	IE SW	8" PVC	594.17
	D CB	RIM	597.23
[1213]	IE NW	8" PVC	594.41
	D MH	RIM	588.39
	IE NE	12" PVC	579.14
[1226]	IE SW	18" PVC	578.59
	D MH	RIM	593.79
	IE NE	8" PVC	586.69
[1230]	IE SW	12" PVC	586.34
	IE NW	8" CONC	589.09
	D MH	RIM	593.79
[1230]	IE NE	8" PVC	586.69
	IE SW	12" PVC	586.34
	IE NW	8" CONC	589.09
[1248]	D CB	RIM	593.72
	IE W	6" PVC	590.72
	IE S	8" PVC	590.63
[1491]	D MH	RIM	599.65
	IE N	8" PERF	594.35
	IE NE	8" PVC	589.55
[1652]	IE SE	8" PVC	589.64
	IE NW	12" CPEP	589.20
	D CB	RIM	599.50
[1662]	IE N	8" PVC	593.60
	IE E	6" PVC	593.60
	D MH	RIM	591.41
[1681]	IE SW	12" CPEP	581.29
	IE W	12" CPEP	580.74
	D MH	RIM	590.30
[1682]	IE S	8" PVC	586.30
	D CB	RIM	593.36

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EXISTING CONDITIONS -
OVERALL
REDMOND RIDGE FIELD CONVERSION

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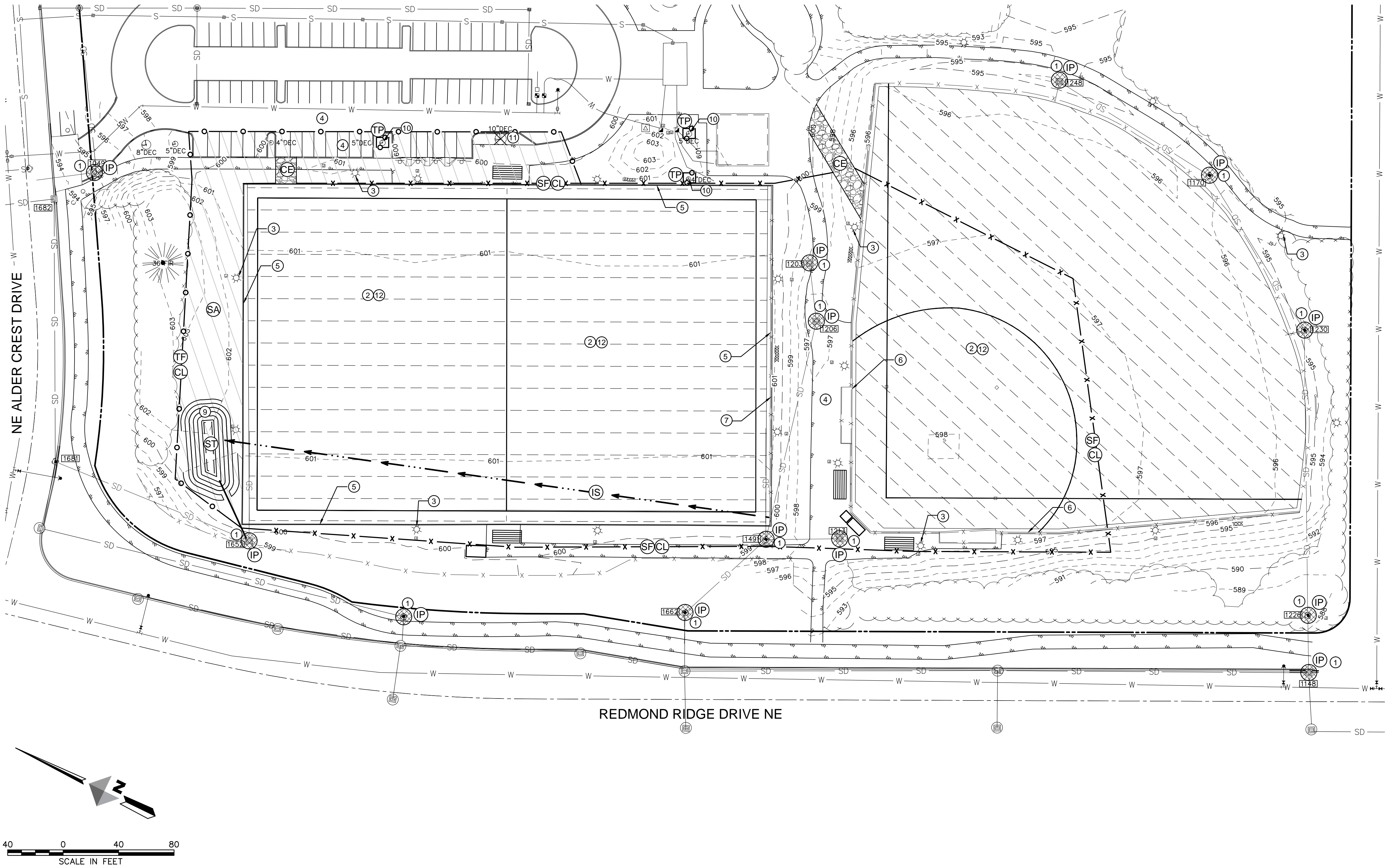
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PROJECT	13427.01
DATE	11/30/2012

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PROJECT TESC AND DEMOLITION PLAN NOTES

1. COMPLY WITH ALL KING COUNTY CONSTRUCTION REQUIREMENTS.
2. UTILITIES AND OTHER FEATURES SHOWN ON THESE PLANS ARE BASED ON SURVEY AND RECORD INFORMATION. CONTRACTOR SHALL ASSUME LOCATIONS ARE APPROXIMATE.
3. FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES AND SITE ITEMS.
4. PROTECT ALL UTILITIES.
5. PROTECT ALL TREES TO REMAIN.
6. COORDINATE ALL UTILITY WORK WITH BOTH UTILITY PURVEYOR AND WITH OWNER.
7. PROVIDE 5-BUSINESS DAYS NOTICE OF ANY SERVICE AND OR ACCESS DISRUPTIONS TO OWNER AND/OR ANY POTENTIALLY AFFECTED NEIGHBOR(S).
8. MAINTAIN GOOD SITE HOUSEKEEPING.
9. REPAIR ALL DAMAGE RELATED TO WORK ACTIVITIES, TO MATCH PRE-WORK CONDITIONS.
10. ALL DISTURBED LANDSCAPE AREAS THAT ARE NOT INCLUDED IN PROJECT SPECIFIC LANDSCAPING PLANS SHALL BE SCRAPPED TO 6-INCHES BELOW FINAL FINISH GRADE, TOP DRESSED WITH 6-INCHES OF 50/50 COMPOST AMENDED TOPSOIL AND HYDROSEEDED WITH A GRASS AND WILDFLOWER MIX.
11. REGULARLY REMOVE ALL PROJECT AND SITE WASTES FROM THE SITE AND PROPERLY DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
12. UPON COMPLETION OF PROJECT WORK, ALL WASTE, EQUIPMENT, TOOLS AND MATERIALS NOT INCLUDED FOR RETENTION, SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
13. KEEP PARK DRIVES, PARKING AREAS, ACCESS ROADS AND PUBLIC STREETS SWEEP CLEAN.
14. UPON COMPLETION OF WORK, CLEAN (JET WASH AND VACTOR CLEAN) ONSITE STORM CATCH BASINS AND PIPES.
15. TESC MEASURES SHOWN ARE APPROXIMATE. AUGMENT, REPAIR, REPLACE OR OTHERWISE MODIFY MEASURES AS NEEDED TO COMPLY WITH KING COUNTY REQUIREMENTS. MEASURES MAY ALSO BE REALIGNED AND MODIFIED TO ACCOMMODATE WORK ACTIVITIES AND WORK PROGRESS, PROVIDED ALL REQUIREMENTS ARE MET.

TESC AND DEMOLITION KEY NOTES

- ① INSTALL INLET PROTECTION ON EXISTING CATCH BASINS
- ② EXCAVATE TO EXPOSE EXISTING FIELD UNDERDRAIN SYSTEM PIPES. VERIFY CLEANLINESS AND FUNCTION. CLEAN AND REPAIR AS NECESSARY IN PREPARATION FOR USE OF INTACT AND PROPERLY FUNCTIONING PORTIONS TO BE INTEGRATED INTO THE RENOVATED AND FINAL UNDERDRAIN SYSTEM.
- ③ PROTECT ALL EXISTING FIELD LIGHTS AND POWER SUPPLY ITEMS. (TYP.)
- ④ PROTECT ALL PAVEMENT TO REMAIN.
- ⑤ REMOVE EXISTING CURB
- ⑥ EXISTING CURB TO REMAIN
- ⑦ REMOVE EXISTING FENCE
- ⑧ EXISTING FENCE TO REMAIN
- ⑨ SEDIMENT TRAP.
- ⑩ INSTALL TREE PROTECTION.
- ⑪ CURB CUT FOR NEW DRIVEWAY.
- ⑫ REMOVE EXISTING ALL-WEATHER FIELD MATERIAL (ESTIMATED TO BE 10-INCHES MINIMUM) TO TOP OF DRAINAGE SYSTEM.

TESC, CLEARING & DEMO LEGEND

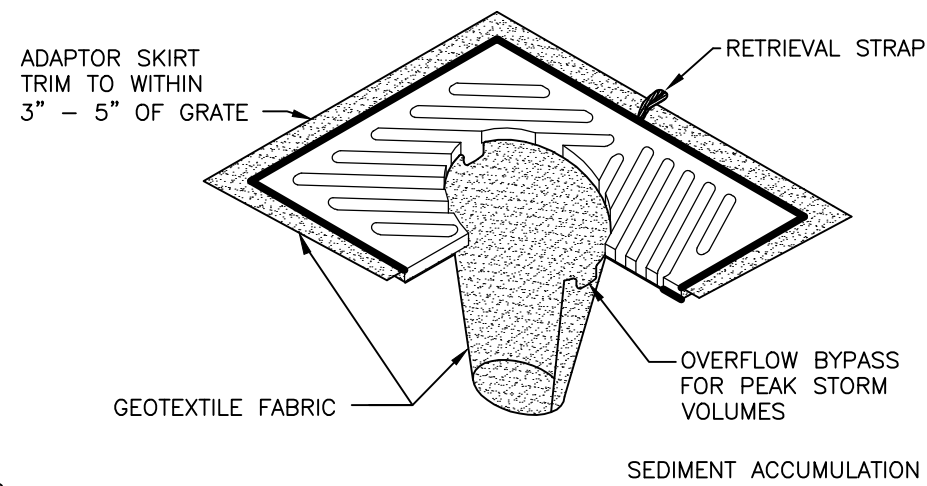
- | | |
|--|---|
| | STABILIZED CONSTRUCTION ENTRANCE, DETAIL #2, SHEET C2.1 |
| | SILT FENCE, DETAIL #4, SHEET C2.1 |
| | TEMPORARY FENCE, DETAIL #3, SHEET C2.1 |
| | INLET PROTECTION, DETAIL #1, SHEET C2.1 |
| | CLEARING LIMITS |
| | TREE PROTECTION, DETAIL #7, SHEET C2.1 |
| | TREE REMOVAL |
| | STAGING AREA WITH TEMPORARY FENCE |
| | INTERCEPTOR SWALE, DETAIL #5, SHEET C2.1 |
| | SEDIMENT TRAP, DETAIL #6, SHEET C2.1 |

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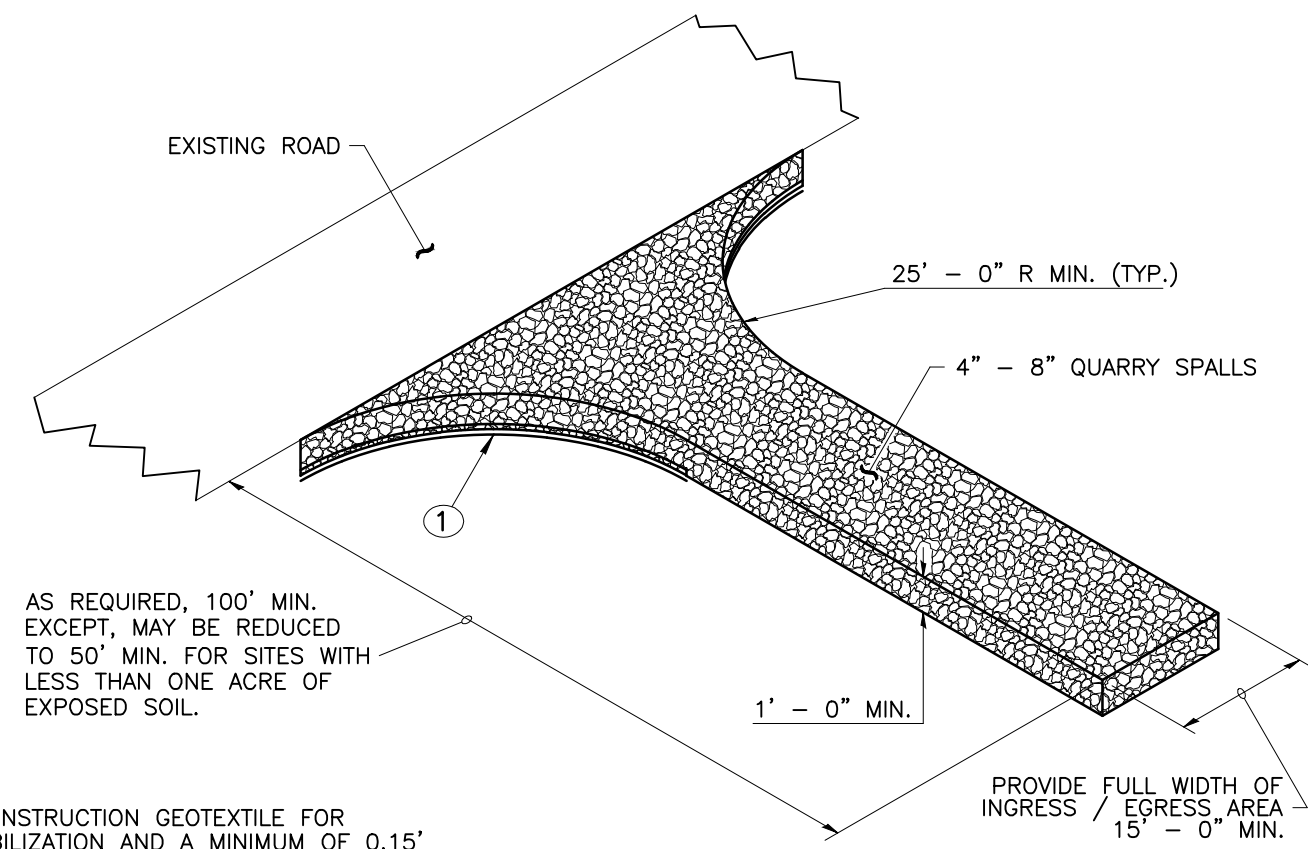
TESC & DEMO - OVERALL
REDMOND RIDGE FIELD CONVERSION



- NOTES:
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
 2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
 3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

1 TYPE A INLET PROTECTION **IP**

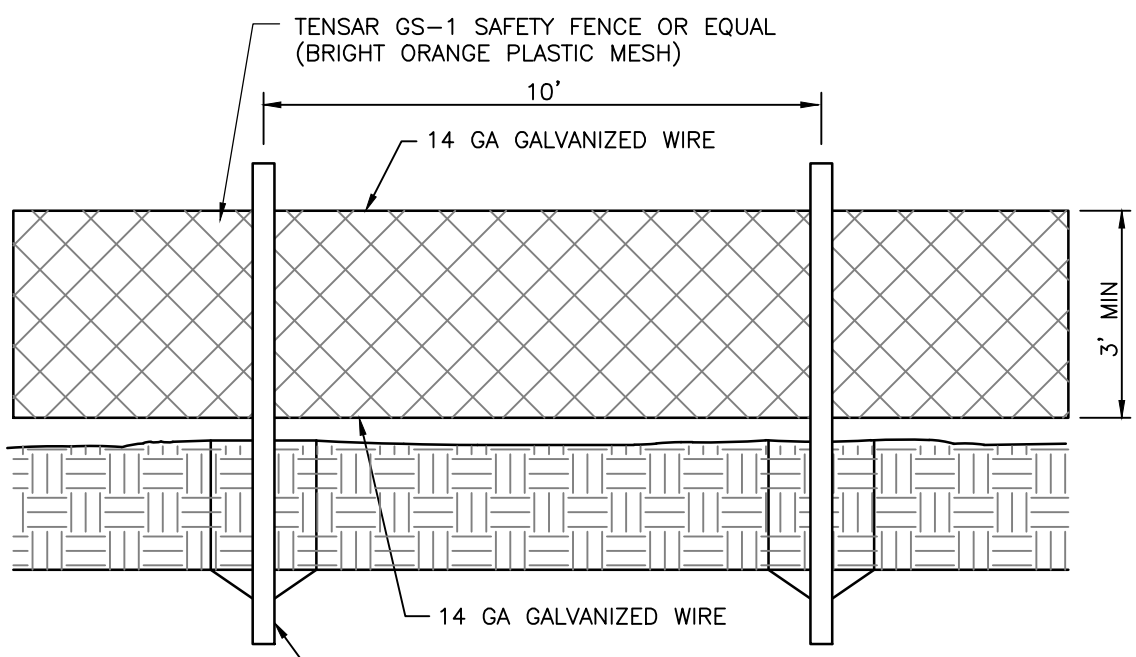
C2.1 NTS



- 1 PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 0.15' CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.

2 STABILIZED CONSTRUCTION ENTRANCE **C9**

C2.1 NTS PER WSDOT STD. PLAN I-14

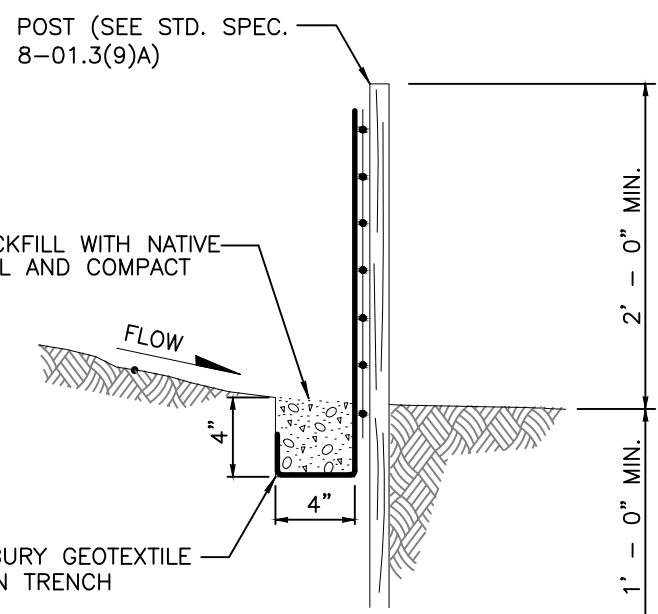
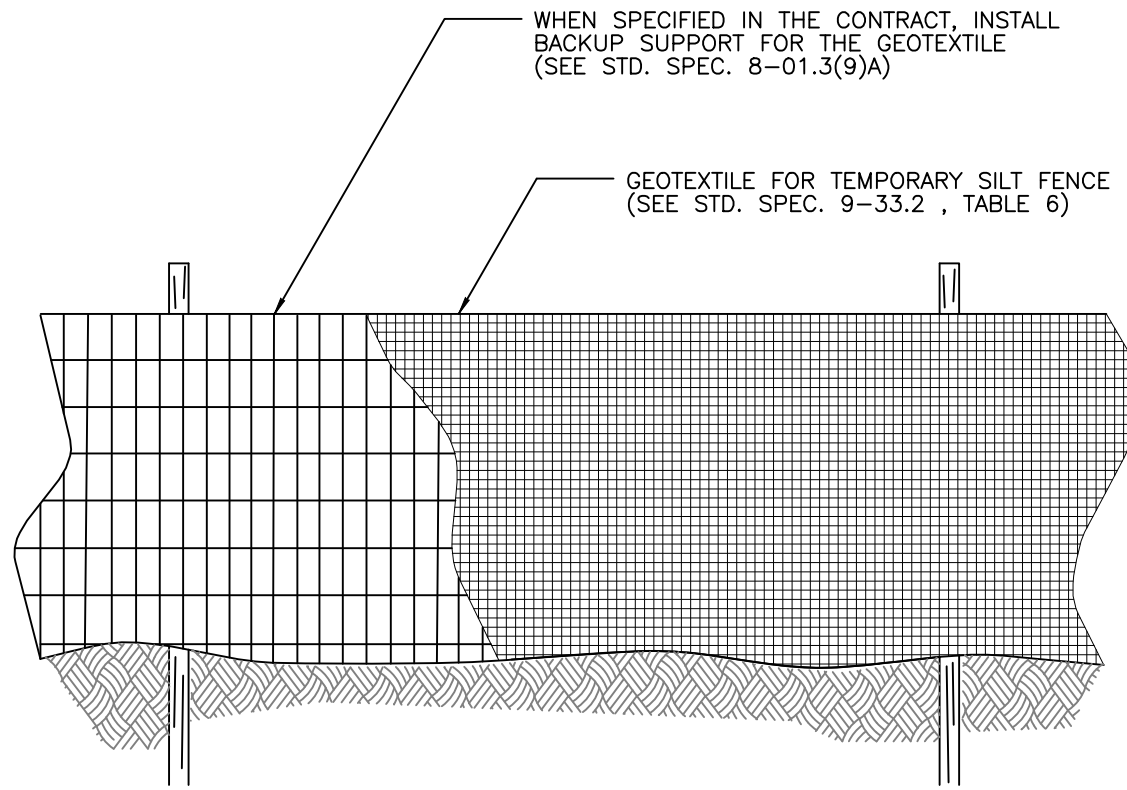


1. CLIP FENCE TO GALVANIZED WIRE AT 5 FOOT ON-CENTER SPACING.
2. WIRE FENCE TO STEEL FENCE POST.
3. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS. CLEARING FENCE TO BE USED AT CLEARING LIMITS UPHILL OF CONSTRUCTION LIMITS.
4. MORE SUBSTANTIAL (CHAIN LINK) FENCING SHALL BE INSTALLED IF TEMPORARY FENCE FAILS TO PREVENT ENCROACHMENTS IN TO AREAS NOT TO BE DISTURBED.

3 TEMPORARY CLEARING/SAFTEY FENCE **TF**

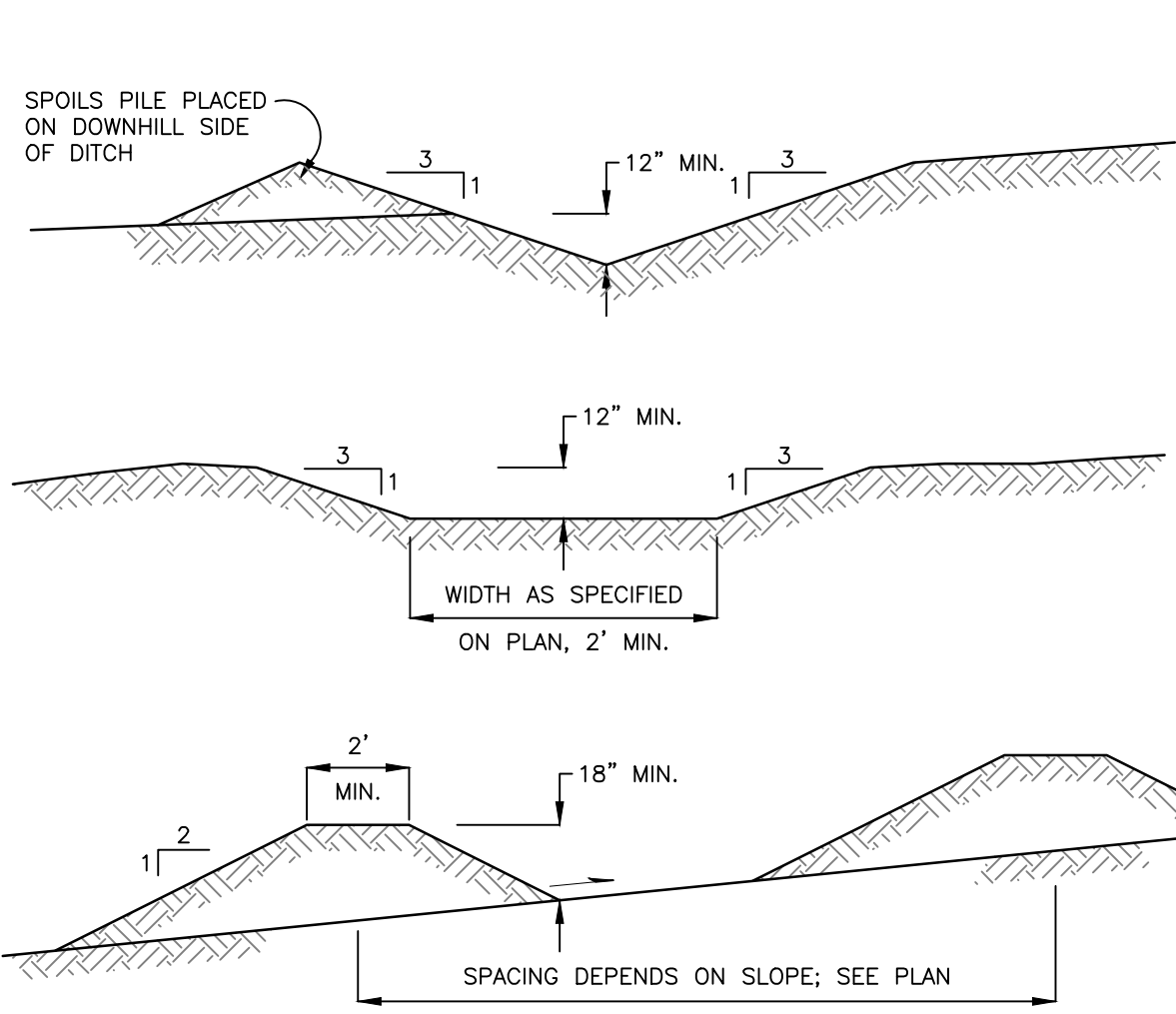
C2.1 NTS

- NOTES:
1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM THE TOE OF SLOPE AS POSSIBLE WITHOUT ENCROACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
 2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
 3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
 4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.3(9)A AND 8-01.3(15).



4 SILT FENCE **SP**

C2.1 NTS PER WSDOT STD. PLAN I-4



- V-DITCH SECTION** **IS**
1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
 2. DEPTH OF DITCH VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS, IF ANY.
 3. INTENDED FOR MINOR FLOWS.

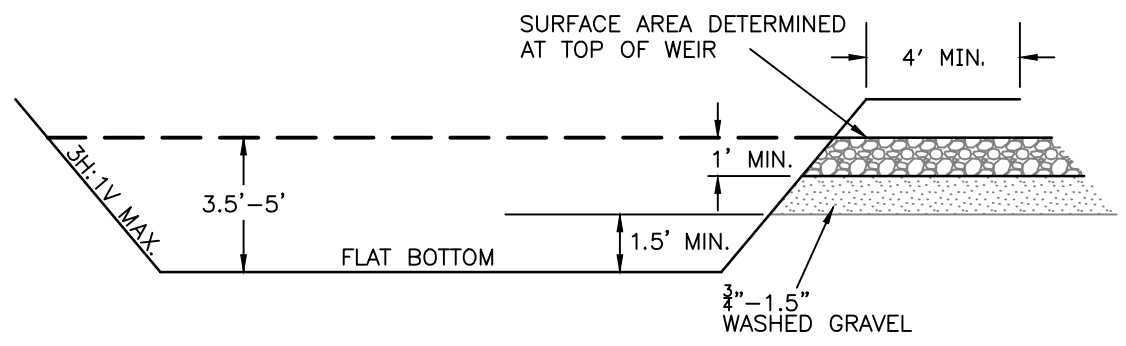
- TRAPEZOID SWALE SECTION** **IS**
1. SLOPE TO MATCH TERRAIN OR AS SHOWN ON PLAN.
 2. DEPTH OF SWALE VARIES WITH TERRAIN AND SLOPE. REFER TO PLAN FOR REQUIRED INVERT ELEVATIONS.
 3. TRAPEZOIDAL SWALE IS SIZED TO CONVEY A SPECIFIC FLOW; SLOPE AND WIDTH SHOWN ON PLAN PROVIDES THE REQUIRED CAPACITY.

INTERCEPTOR DIKE ID	
AVG. SLOPE	SPACING
3-5%	300 FT.
5-10%	200 FT.
10-25%	100 FT.
25-50%	50 FT.

1. DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY.
2. IF THE FACILITIES DO NOT ADEQUATELY INTERCEPT AND CHANNEL STORM RUNOFF, THE CAPACITY AND OR FREQUENCY SHALL BE REVISED.

5 INTERCEPTOR SWALES & DIKES **IS ID**

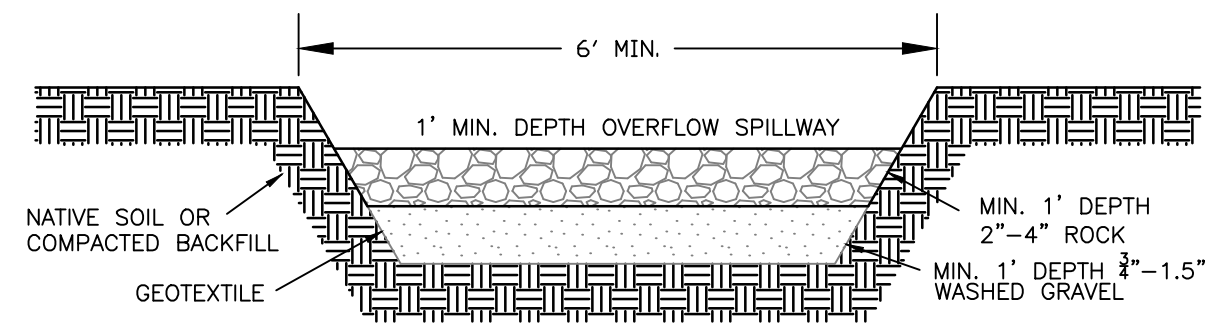
C2.1 N.T.S.



NOTE: TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION

DISCHARGE TO STABILIZED CONVEYANCE, OUTLET OR LEVEL SPREADER

CROSS-SECTION



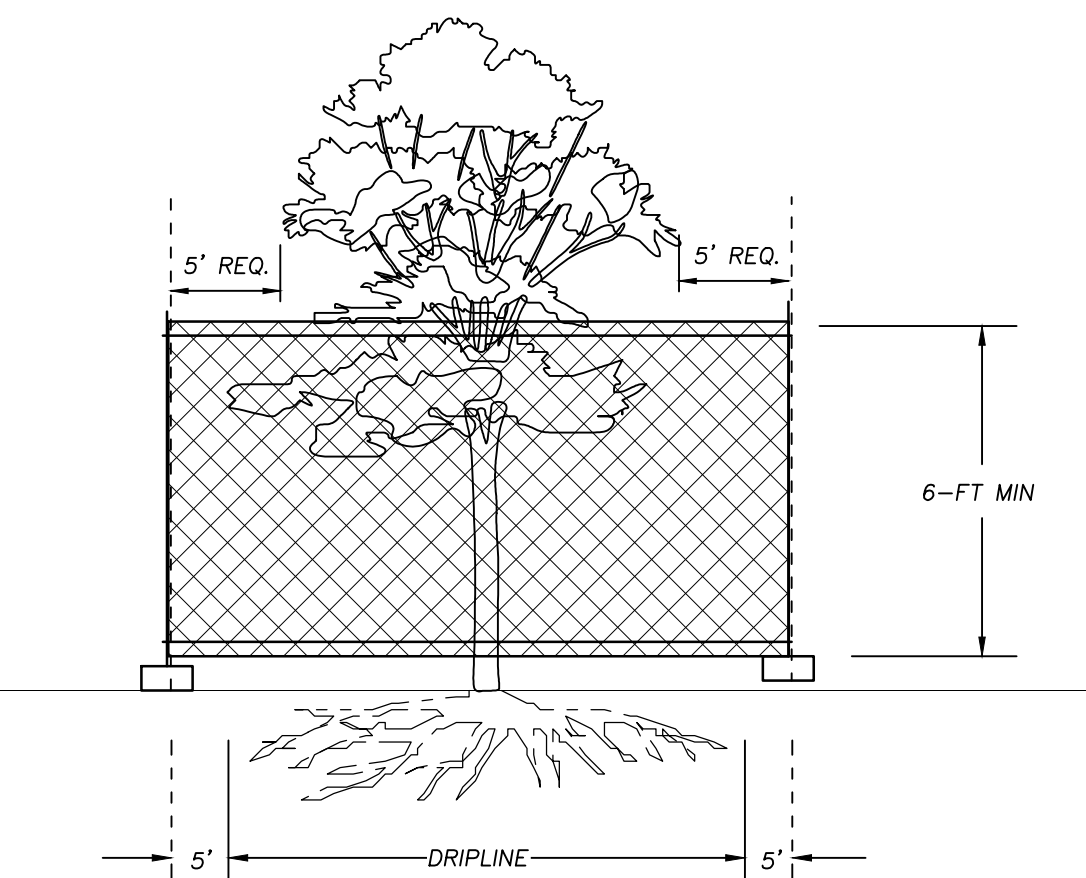
TRAP OUTLET

SEDIMENT TRAP NOTES

1. SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN IT REACHES 1 FOOT IN DEPTH.
2. ANY DAMAGE TO THE TRAP EMBANKMENTS FOR SLOPES SHALL BE REPAIRED.
3. TRAP OUTLET MAY NOT BE NEEDED ON THIS PROJECT.
4. MINIMUM SURFACE AREA IS 1315 SQUARE FEET AT ELEVATION 600

6 SEDIMENT TRAP **ST**

C2.1 N.T.S.



1. 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT 5' BEYOND THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

7 TREE PROTECTION **TP**

C2.1 NTS

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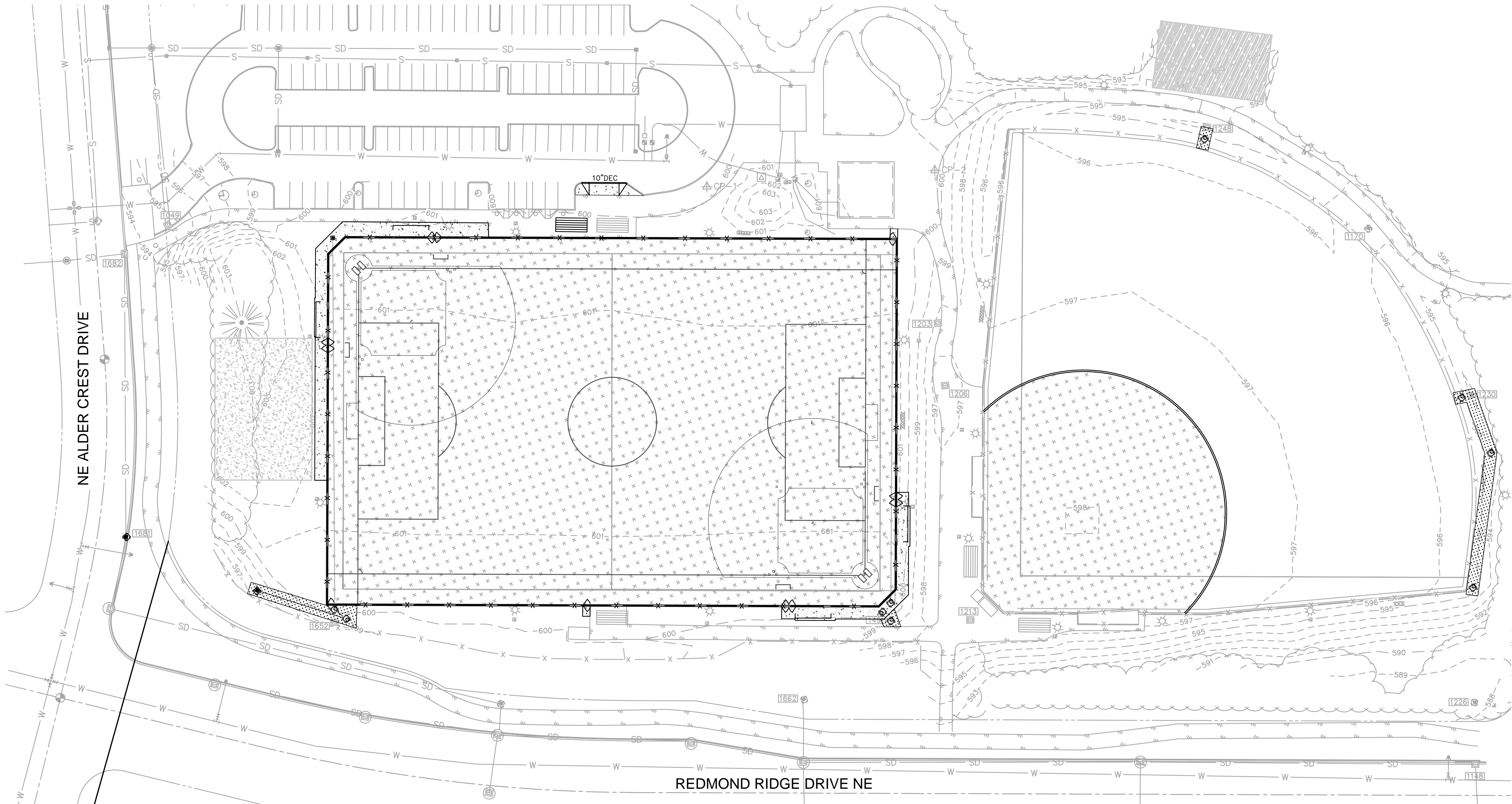
TESC DETAILS

REDMOND RIDGE FIELD CONVERSION

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PATTERN LEGEND	
	CONCRETE
	FUTURE ROOF AREA
	SYNTHETIC TURF
	LANDSCAPE TO BE REPLACED (SEE LANDSCAPE PLANS)
	FUTURE BASKETBALL COURT

KEY MAP - 1" = 200'

The key map shows a larger area with two rectangular regions labeled 'C4.1' and 'C4.2'. A north arrow is positioned below the key map.

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**SITE PLAN - OVERALL
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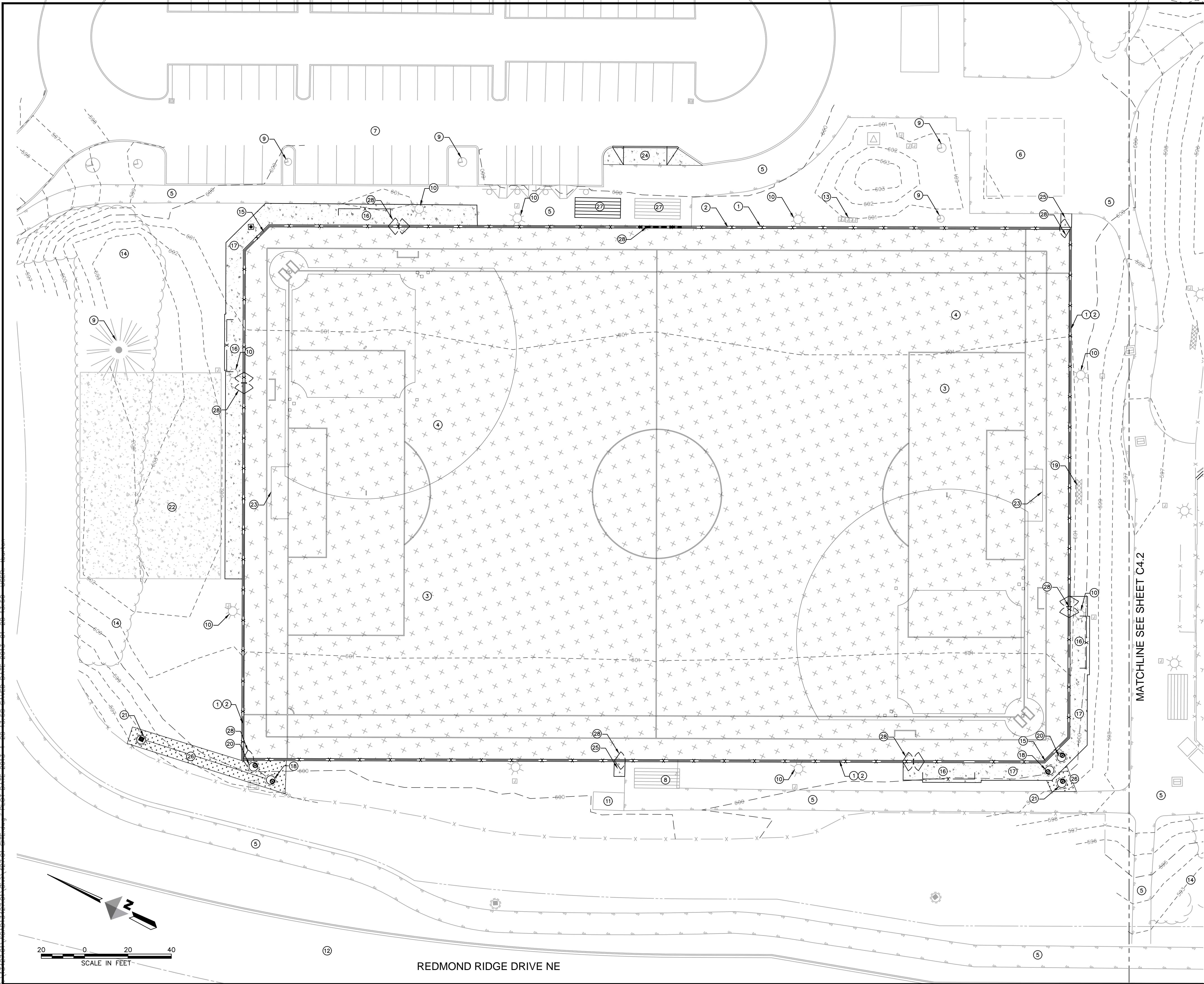
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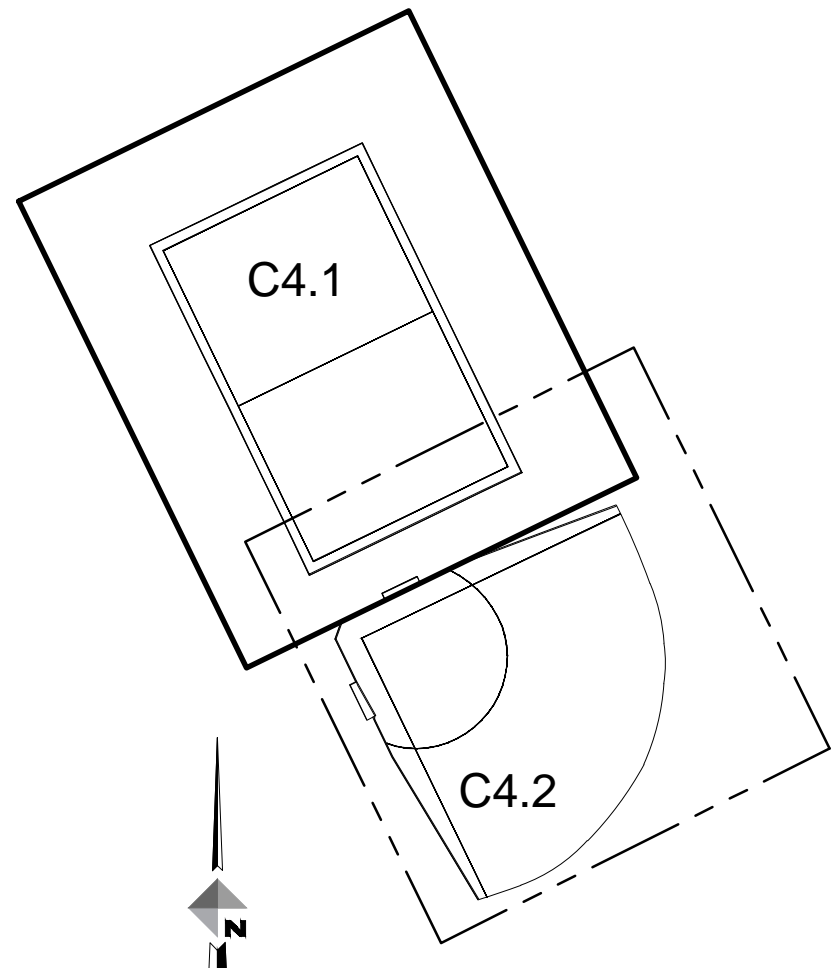
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PROJECT CIVIL SITE PLAN KEY NOTES

1. INSTALL NEW FIELD CURB. SEE SHEET C4.3 AND LANDSCAPE ARCHITECTURE PLANS.
2. INSTALL NEW FIELD FENCING. (ALL BLACK. SEE LANDSCAPE ARCHITECTURE PLANS.)
3. INSTALL NEW SYNTHETIC TURF FIELD. COORDINATE ALL WORK WITH OWNER AND TURF INSTALLER.
4. FIELD LAYOUT PER LANDSCAPE ARCHITECTURE PLANS.
5. EXISTING ASPHALT WALKWAY TO REMAIN.
6. EXISTING PAVILLION TO REMAIN. (APPROX. 36'X36')
7. EXISTING PARKING LOT TO REMAIN.
8. EXISTING BLEACHERS TO REMAIN.
9. EXISTING TREES TO REMAIN. (TYP.)
10. EXISTING LIGHT TO REMAIN. (TYP.)
11. EXISTING STRUCTURES TO REMAIN. (APPROX. 8'X14')
12. EXISTING ASPHALT ROADWAY WITH CURB, GUTTER AND WALKING TRAIL.
13. EXISTING ELECTRICAL TO REMAIN. (TYP.)
14. EXISTING NATIVE VEGETATION TO REMAIN.
15. INSTALL NEW FENCE FOR BASEBALL BACKSTOP. SEE LANDSCAPE ARCHITECTURE PLANS.
16. INSTALL NEW DUGOUT.
17. INSTALL NEW CONCRETE AROUND THE BACKSTOP. SEE DETAIL ON SHEET C4.3.
18. INSTALL NEW STORMFILTER.
19. SEE LANDSCAPE SHEETS FOR IRRIGATION SYSTEM CHANGES.
20. INSTALL NEW CONTROL STRUCTURE
21. INSTALL NEW TYPE 2 STORM DRAIN STRUCTURE. SEE SHEET C5.1 FOR ADDITIONAL INFORMATION.
22. FUTURE PAVED BASKETBALL COURT AREA. (AREA NOT IN CONTRACT)
23. INCLUDE SOCCER GOAL ANCHORS. (SEE FIELD LANDSCAPE ARCHITECTURE PLANS.)
24. INSTALL NEW CONCRETE DRIVEWAY APPROACH PER KING COUNTY ROAD STANDARDS FIGURE 3-005.
25. INSTALL NEW CONCRETE. SEE DETAIL ON SHEET C4.3
26. REPLACE DISTURBED LANDSCAPING. SEE LANDSCAPE PLANS.
27. RELOCATE EXISTING BLEACHER NORTHWARD TO PROVIDE CLEAR PASSAGE THROUGH FIELD GATE.
28. INSTALL GATE(S) PER LANDSCAPE ARCHITECTURE PLANS.

KEY MAP - 1" = 200'



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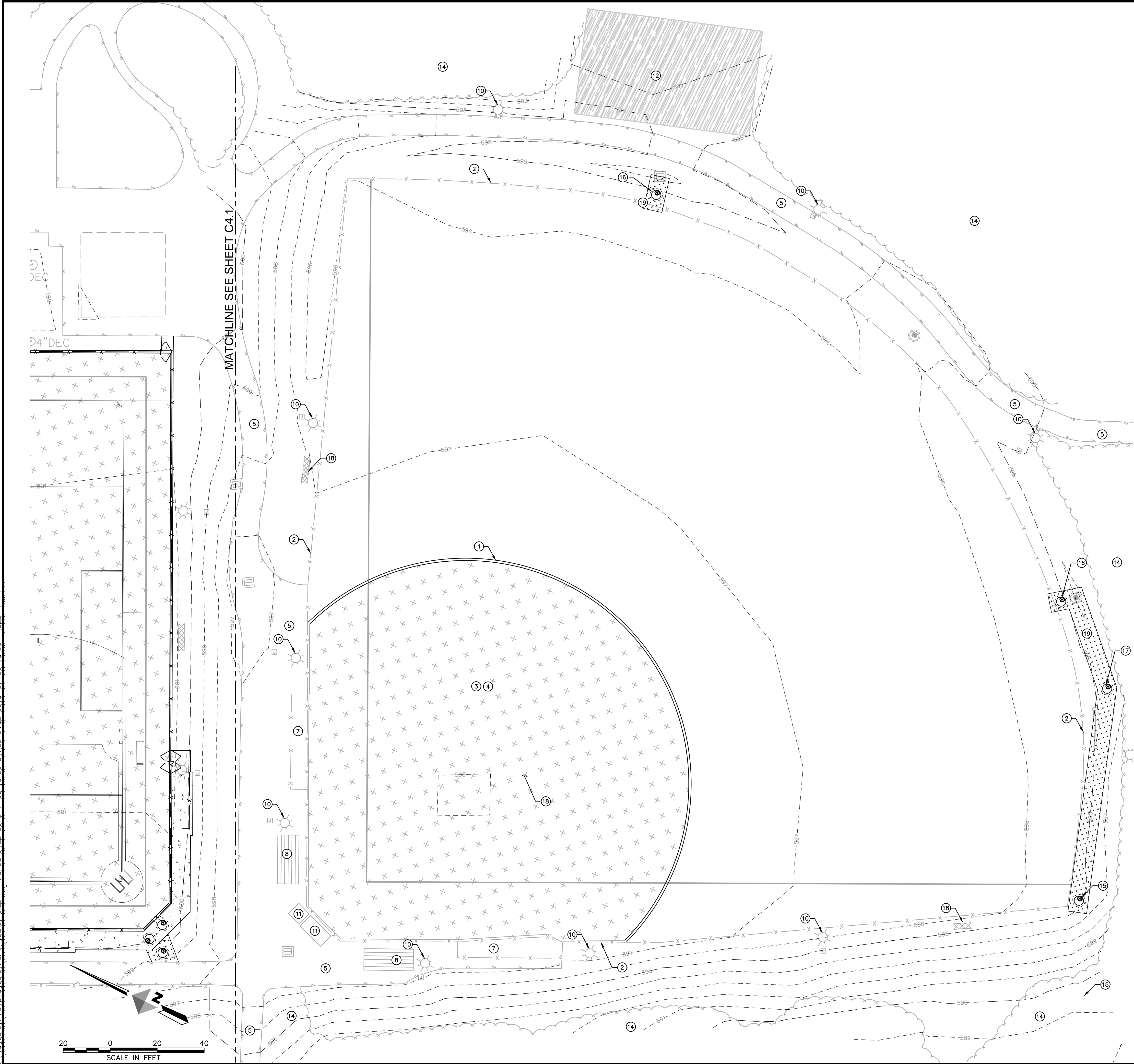
**SITE PLAN - NORTH
REDMOND RIDGE FIELD CONVERSION**

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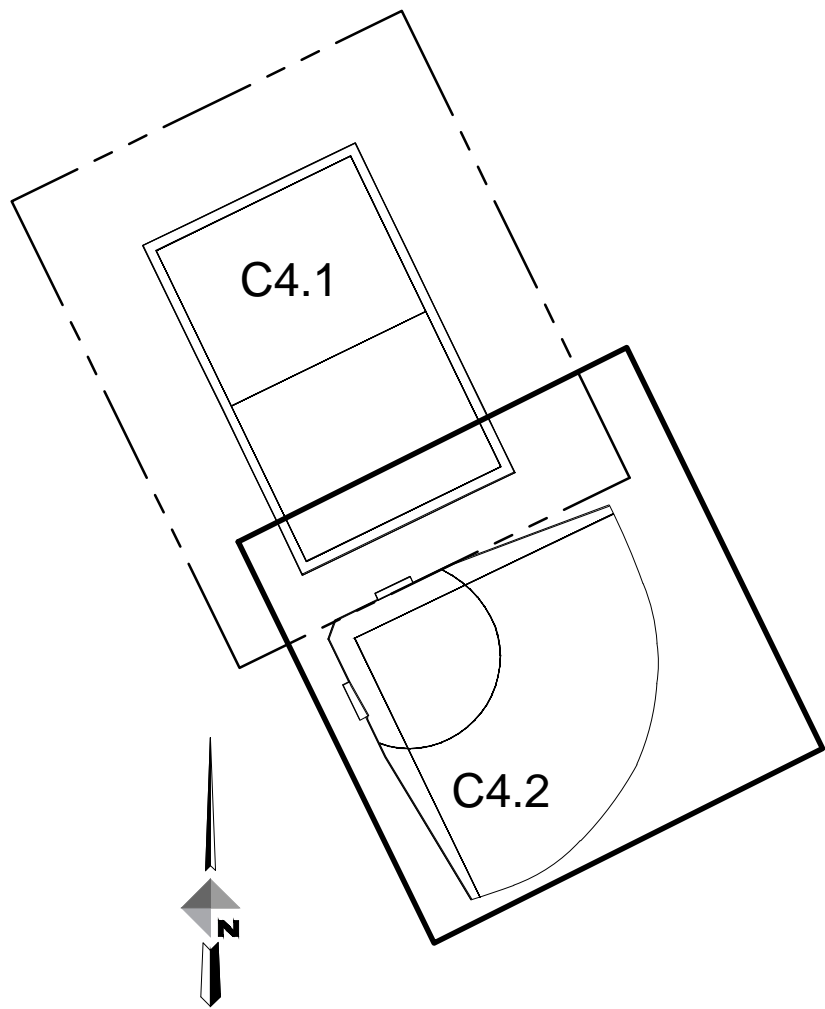
C4.1



PROJECT CIVIL SITE PLAN KEY NOTES

- 1 INFIELD TRANSITION NAILER PER LANDSCAPE ARCHITECTURE PLANS.
- 2 EXISTING FIELD FENCING TO REMAIN.
- 3 NEW SYNTHETIC TURF FIELD. SEE LANDSCAPE ARCHITECTURE PLANS FOR SECTION AND LAYOUT. COORDINATE ALL WORK WITH OWNER AND TURF INSTALLER.
- 4 FIELD LAYOUT PER LANDSCAPE ARCHITECTURE PLANS.
- 5 EXISTING ASPHALT WALKWAY TO REMAIN.
- 6 NOT USED
- 7 EXISTING DUG OUT TO REMAIN.
- 8 EXISTING BLEACHERS TO REMAIN.
- 9 EXISTING TREES TO REMAIN. (TYP.)
- 10 EXISTING LIGHT TO REMAIN. (TYP.)
- 11 EXISTING STRUCTURES TO REMAIN. (APPROX. 6'X12' AND 6'X6')
- 12 FUTURE COVERED BATTING CAGE (IMPERVIOUS SURFACE) (NOT IN CONTRACT)
- 13 NOT USED.
- 14 EXISTING NATIVE VEGETATION TO REMAIN
- 15 INSTALL NEW STORMFILTER
- 16 INSTALL NEW CONTROL STRUCTURE
- 17 INSTALL NEW 48"Ø CATCH BASIN - TYPE 2 WITH SOLID LOCKING LID. SEE DETAILS ON SHEET C5.4.
- 18 SEE LANDSCAPE SHEETS FOR IRRIGATION SYSTEM CHANGES.
- 19 REPLACE DISTURBED LANDSCAPING. SEE LANDSCAPE PLANS.

KEY MAP - 1" = 200'



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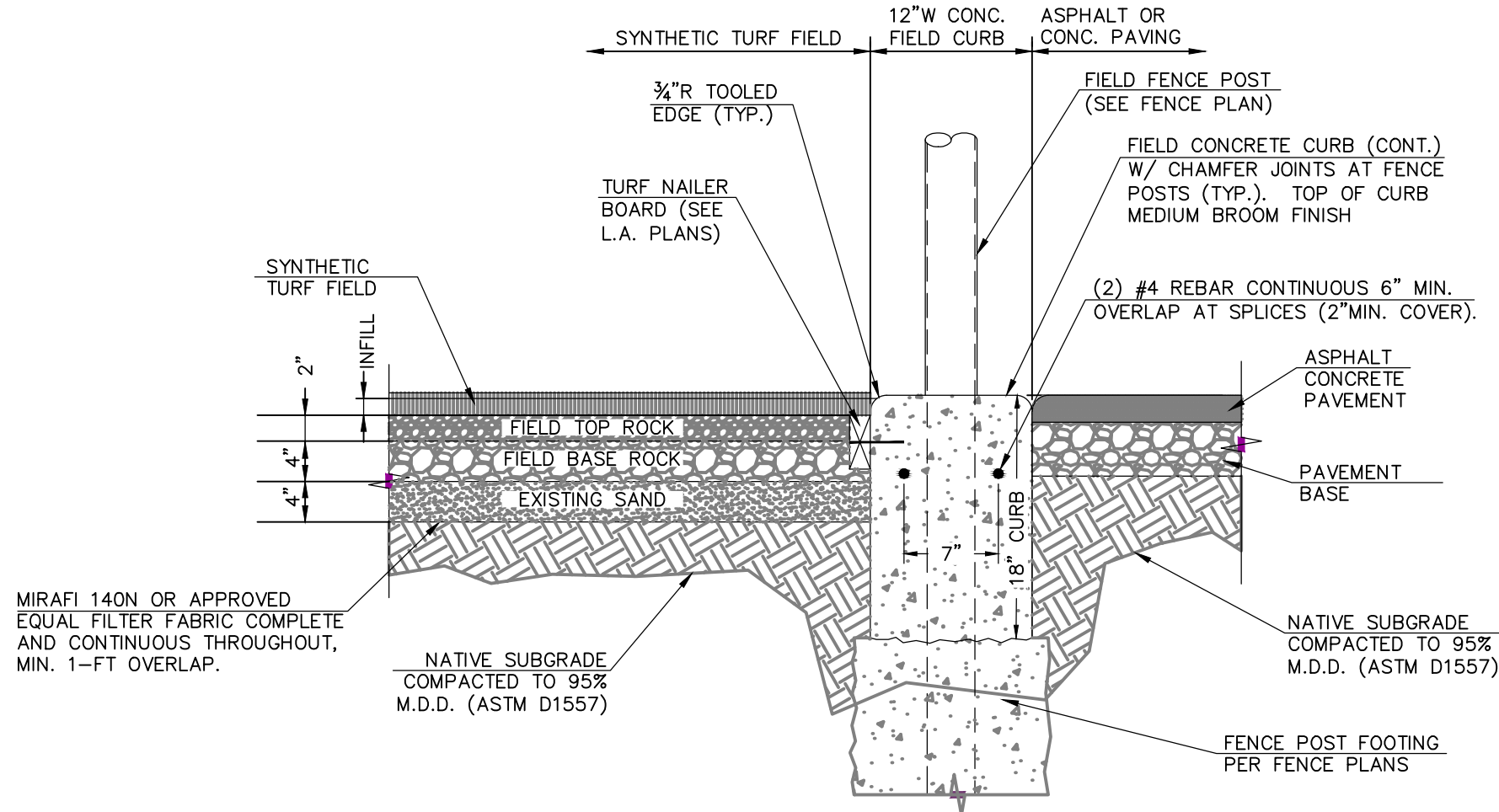
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SITE PLAN - SOUTH

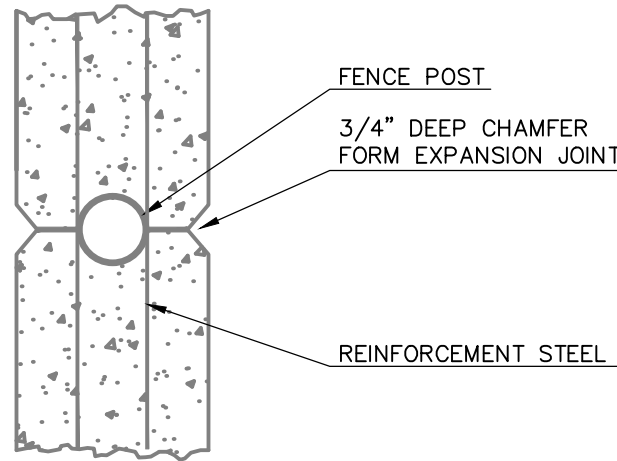
REDMOND RIDGE FIELD CONVERSION



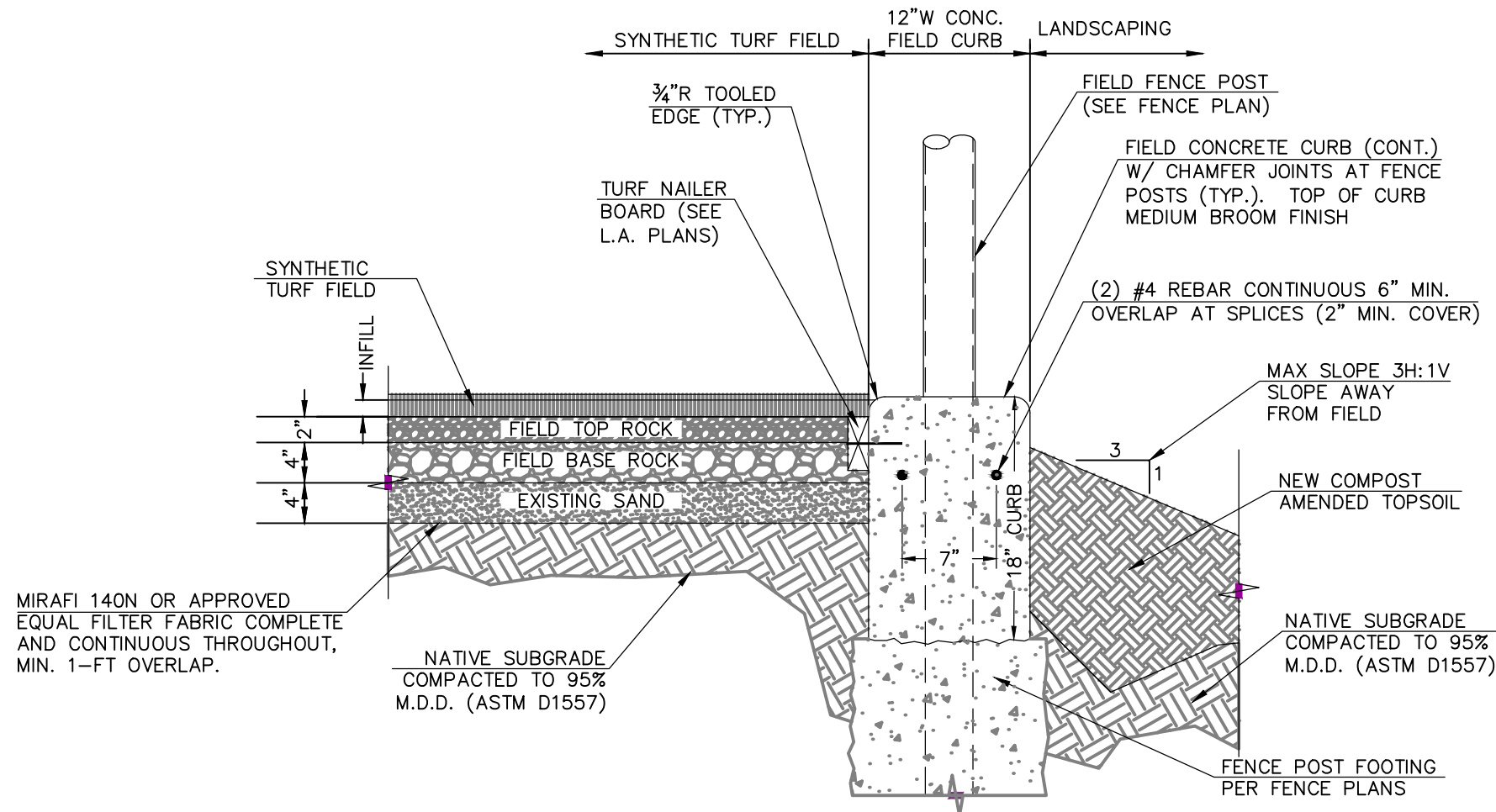
1 CONCRETE FIELD CURB SECTION ADJACENT TO PAVEMENT
C4.3 N.T.S.

FIELD AND SITE CURB NOTES

1. EXTERIOR EDGES MAY BE 3/4" CHAMFER
2. INTERIOR EDGE (FIELD TURF SIDE) SHALL BE TOOLED RADIUS
3. GRIND SMOOTH ALL CURB EDGES. REMOVE ALL BURRS, TABS AND OTHER ROUGH PROTRUSIONS.



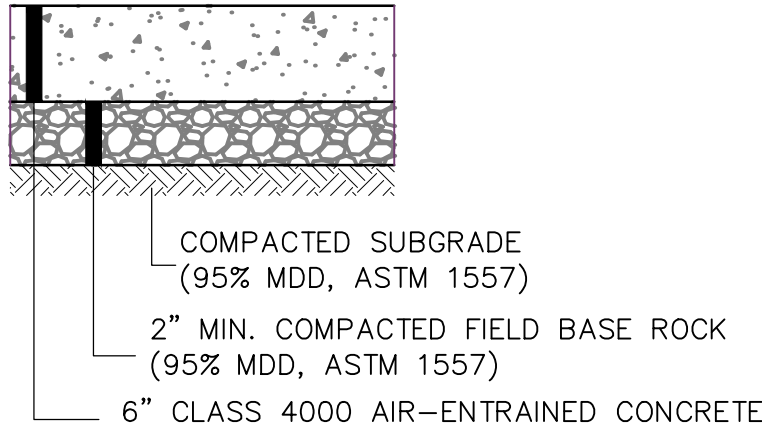
3 FIELD CURB AT FENCE POST PLAN DETAIL
C4.3 N.T.S.



2 CONCRETE FIELD CURB SECTION ADJACENT TO LANDSCAPING
C4.3 N.T.S.

STANDARD CONCRETE NOTES

1. F'c = 4000 PSI FOR ALL CONCRETE UNLESS OTHERWISE NOTED.
2. ULTIMATE STRENGTH DESIGN METHOD SHALL BE USED. SUBMIT MIX DESIGN AND DATA.
3. MAXIMUM WATER-CEMENT RATIO BY WEIGHT SHALL BE 0.46 FOR AIR-ENTRAINED CONCRETE. MIXING AND PLACING OF ALL CONCRETE, AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC AND ACI CODE 318.
4. PROPORTION AGGREGATE TO CEMENT RATIO TO PRODUCE A DENSE WORKABLE MIX WITH 4" MAXIMUM SLUMP, WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. SEE SPECIFICATIONS FOR ADMIXTURES.
5. PROVIDE 5% ± 0.5% TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO FREEZING AND THAWING EXPOSURES.
6. LIMIT WATER-CEMENT RATIO TO 0.45 AND USE TYPE V CEMENT WHERE CONCRETE IS EXPOSED TO SOIL CONTAINING WATER SOLUBLE SULFATE IN EXCESS OF 0.2%. ADD NO WATER AT SITE.
7. WATER REDUCING OR SUPERPLASTICIZING ADMIXTURES MAY BE USED TO INCREASE WORKABILITY WITHOUT INCREASING WATER-CEMENT RATIO OF DESIGN MIX SUBMITTAL.
8. SEE SPECIFICATIONS FOR CURING 3/4" CHAMFER ALL EXPOSED CONCRETE EDGES UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS.



4 STANDARD CONCRETE PAVEMENT SECTION
C4.3 N.T.S.

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PREPARED FOR:

PO BOX 107 REDMOND, WA
98073-0107

SITE CIVIL DETAILS & NOTES

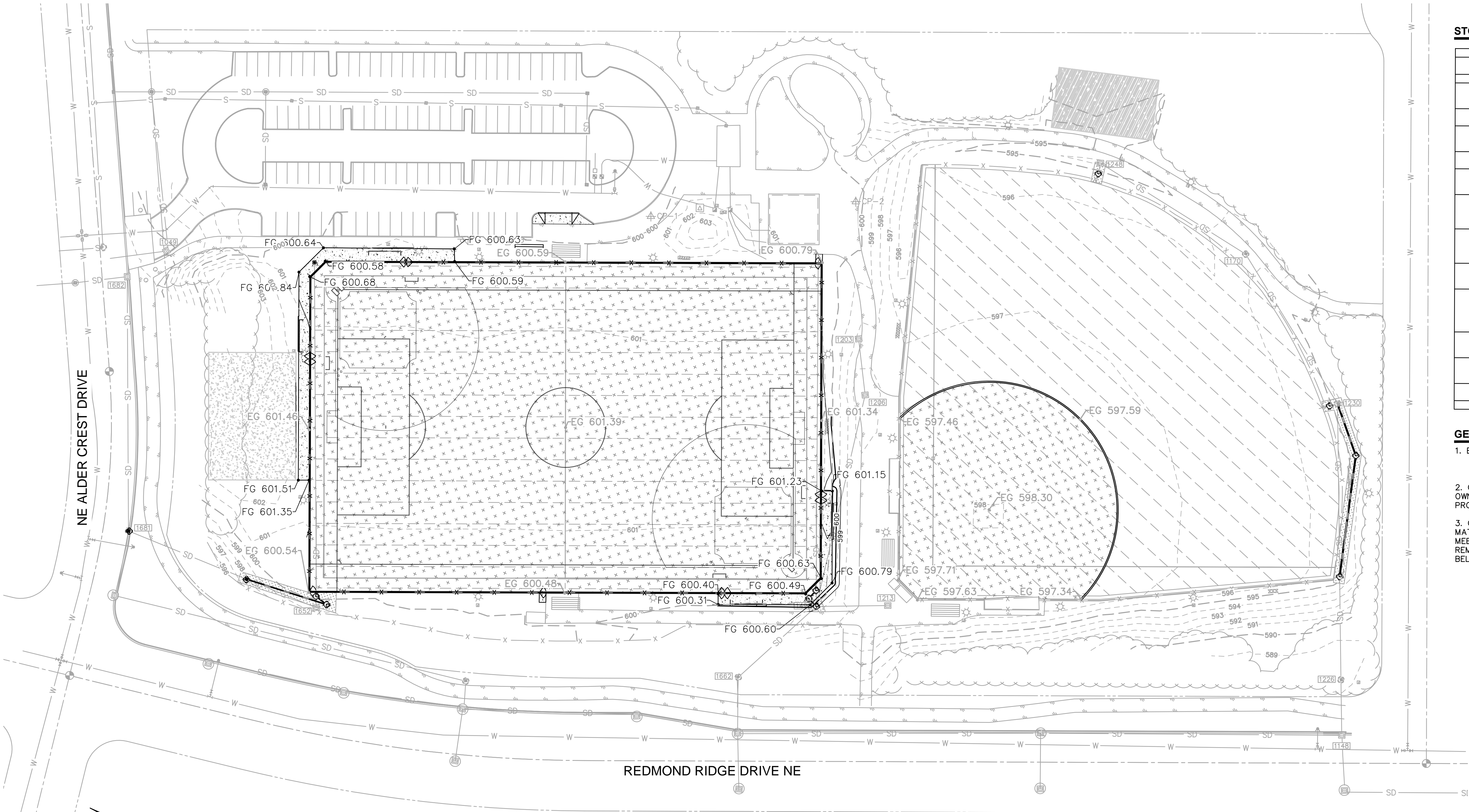
REDMOND RIDGE FIELD CONVERSION

PROJECT 13427.01
DATE 11/30/2012

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SHEET

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STORM DRAIN REFERENCE TABLE

PROPOSED	EXISTING	DESCRIPTION
---	---	PROPERTY LINE
---	---	CENTERLINE
---	---	SECTION LINE
---	---	EASEMENT LINE
---	---	STORM DRAIN LINE
●	●	STORM DRAIN MANHOLE
■	■	CATCH BASIN, TYPE 2
■	■	CATCH BASIN, TYPE 1
---	---	GROUND CONTOUR
FG XXX	EG XXX	SPOT ELEVATION

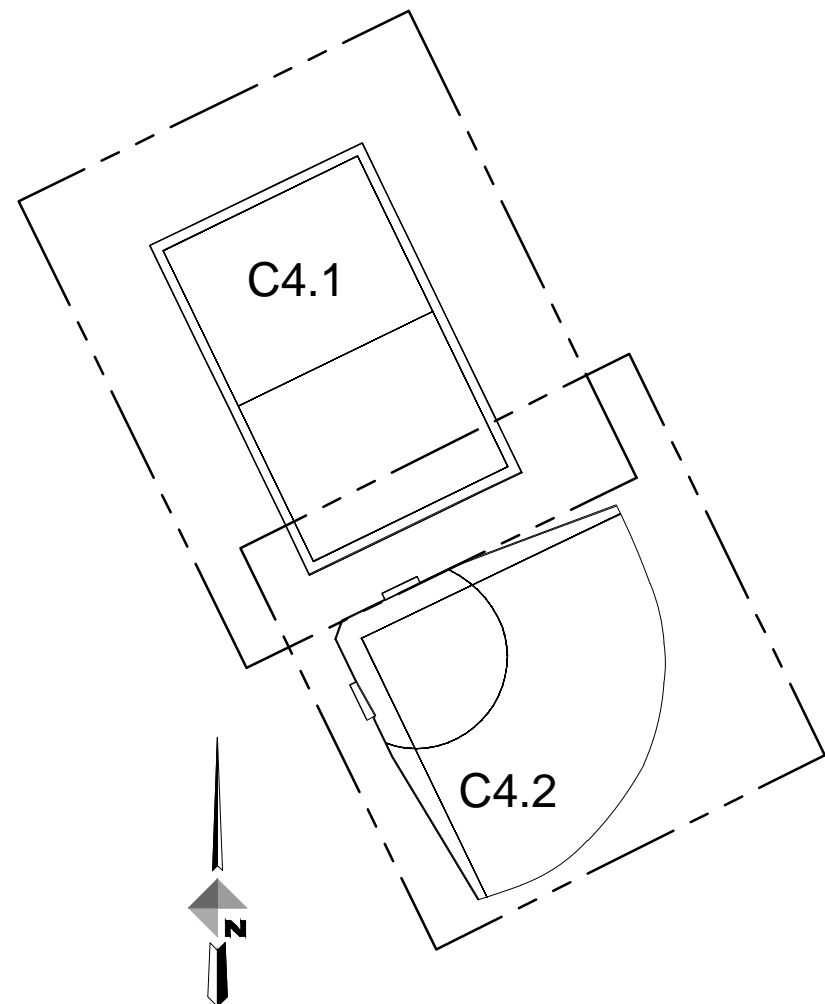
STORM DRAIN REFERENCE TABLE

SYMBOL	DESC	SIZE	ELEV
[1049]	D CB	RIM	594.69
[1148]	IE NW	12"CPEP	591.49
[1170]	D CB	RIM	586.78
[1203]	D MH	RIM	596.31
[1206]	IE N	8"PVC	588.69
[1213]	IE SW	8"PVC	588.59
[1226]	D NO	RIM	596.99
[1230]	IE SW	6"PVC	595.96
[1248]	D CB	RIM	596.42
[1252]	IE NE	6"PVC	594.28
[1256]	IE SW	8"PVC	594.17
[1260]	D CB	RIM	597.23
[1264]	IE NW	8"PVC	594.41
[1268]	D MH	RIM	588.59
[1272]	IE NE	12"PVC	579.14
[1276]	IE SW	18"PVC	578.59
[1280]	D MH	RIM	593.79
[1284]	IE NE	8"PVC	586.69
[1288]	IE SW	12"PVC	586.34
[1292]	IE NW	8"CONC	589.09
[1296]	D MH	RIM	593.79
[1300]	IE NE	8"PVC	586.69
[1304]	IE SW	12"PVC	586.34
[1308]	IE NW	8"CONC	589.09
[1312]	D CB	RIM	593.72
[1316]	IE W	6"PVC	590.72
[1320]	IE S	8"PVC	590.63
[1324]	D MH	RIM	599.65
[1328]	IE N	8"PERF	594.35
[1332]	IE NE	8"PVC	589.55
[1336]	IE SE	8"PVC	589.64
[1340]	IE NW	12"CPEP	589.20
[1344]	D CB	RIM	599.50
[1348]	IE N	8"PVC	593.60
[1352]	IE E	6"PVC	593.60
[1356]	D MH	RIM	591.41
[1360]	IE SW	12"CPEP	581.29
[1364]	IE W	12"CPEP	580.74
[1368]	D MH	RIM	590.30
[1372]	IE S	8"PVC	586.30
[1376]	D CB	RIM	593.36

GENERAL NOTES

- EARTHWORK QUANTITIES ESTIMATED TO BE:
3,700 BOY CUT
3,700 BOY FILL
- CONTRACTOR IS RESPONSIBLE FOR ALL OF HIS/HER OWN QUANTITY ESTIMATES. QUANTITY INFORMATION PROVIDED IS BASED ON RECORD DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIAL NECESSARY TO CONSTRUCT THE FIELDS TO MEET GRADES SHOWN. THIS REQUIREMENT EXCLUDES REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS BELOW THE TOP OF THE SUBDRAINAGE SYSTEM.

KEY MAP - 1" = 200'



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SHEET

C5.0

GRADING & DRAINAGE - OVERALL

REDMOND RIDGE FIELD CONVERSION

PREPARED FOR:



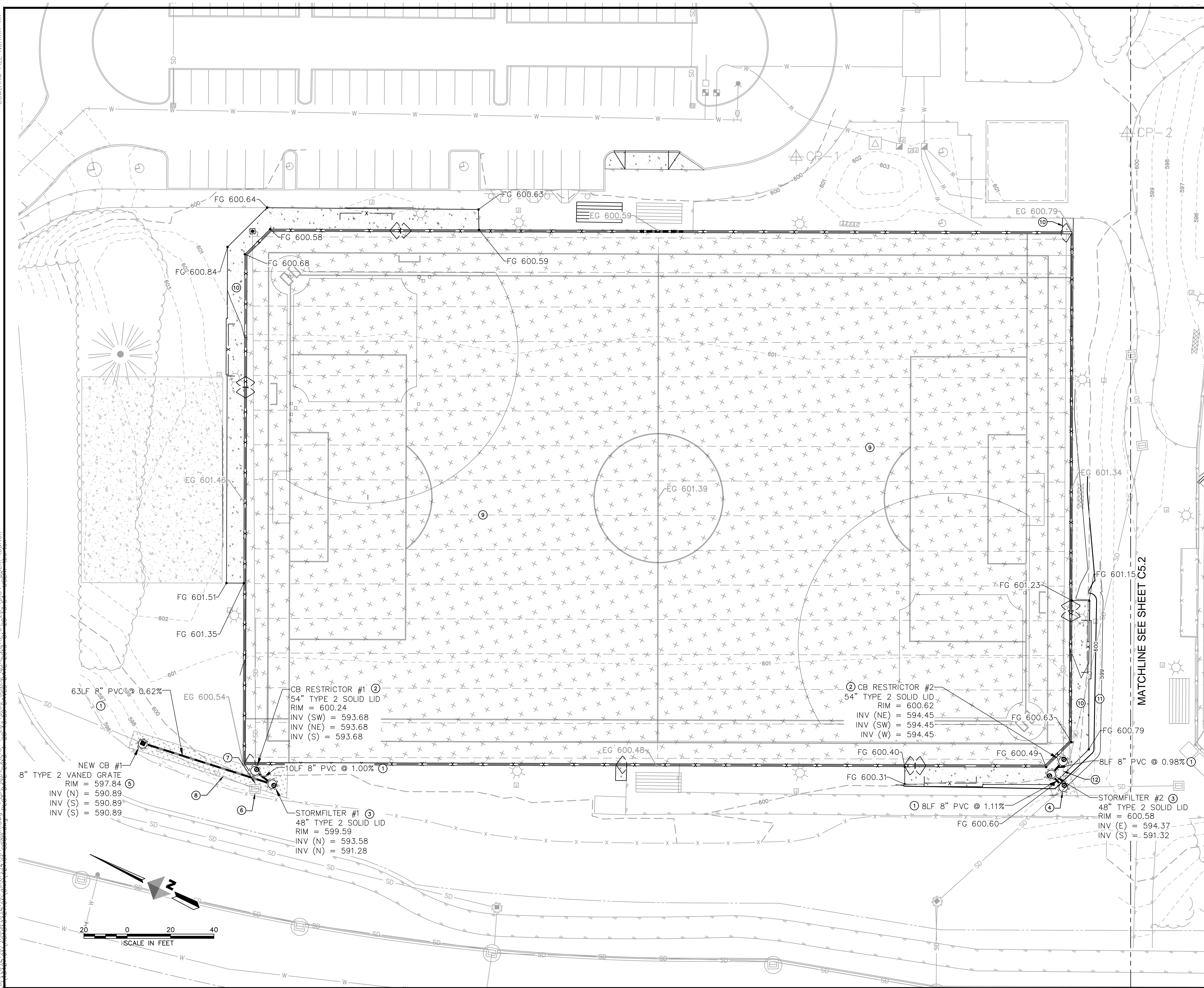
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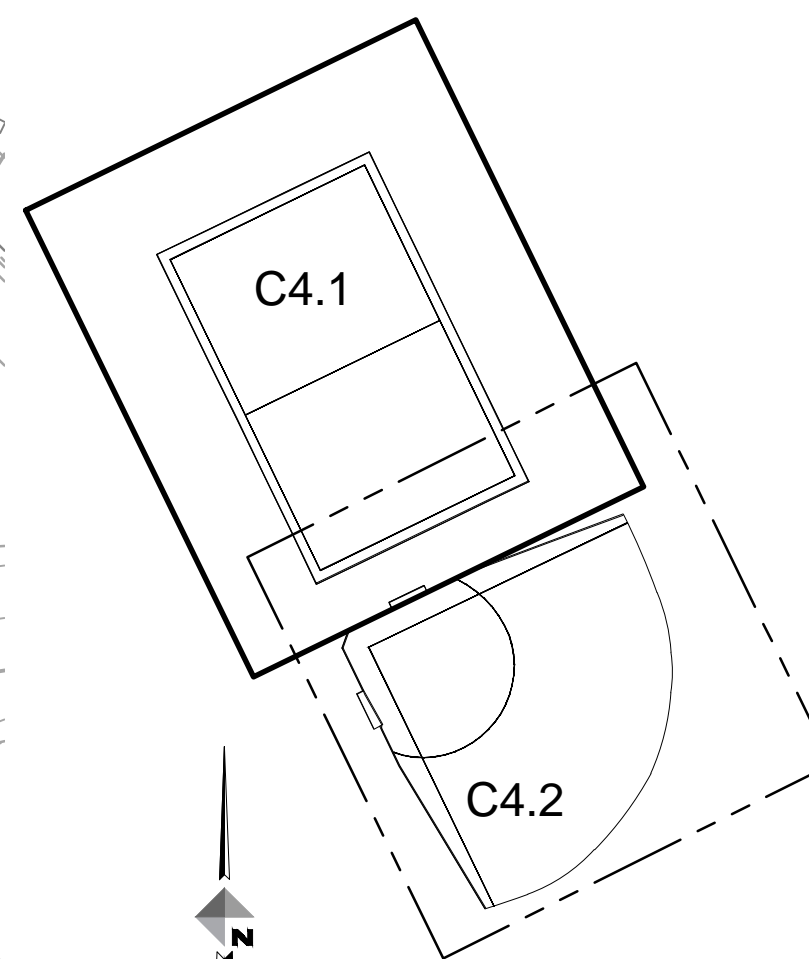
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PROJECT GRADING & STORM PLAN KEY NOTES

1. INSTALL 6" PVC STORM DRAIN PIPE. SEE PROFILE ON SHEET C5.3.
2. INSTALL NEW TYPE 2 - 54" Ø CATCH BASIN WITH SOLID LOCKING LID AND CONTROL STRUCTURE. SEE DETAIL ON SHEET C5.4.
3. INSTALL NEW STORMFILTER. SEE DETAIL ON SHEET C5.4.
4. CONNECT INTO EXISTING CATCH BASIN. PLUG EXISTING SOCCER FIELD CONNECTION FROM THE NORTHEAST. FIELD VERIFY ELEVATIONS.
5. INSTALL NEW CAST-IN-PLACE 48"Ø TYPE 2 CATCH BASIN WITH GRATE. FIELD VERIFY ELEVATIONS.
6. REMOVE EXISTING CATCH BASIN.
7. REMOVE EXISTING STORM DRAIN BETWEEN CB RESTRICTOR #1 AND CATCH BASIN 1652.
8. REMOVE EXISTING STORM DRAIN BETWEEN CATCH BASIN 1652 AND NEW CATCH BASIN #1.
9. REPAIR EXISTING UNDERDRAIN SYSTEM AS NECESSARY. SEE DETAIL ON SHEET C5.4.
10. INSTALL NEW CONCRETE PAD AT ELEVATIONS SHOWN.
11. REVISE SLOPE TO A 3:1 SLOPE UNTIL MATCH INTO EXISTING GRADES.
12. REMOVE EXISTING STORM DRAIN BETWEEN CB RESTRICTOR #3 AND EXISTING CATCH BASIN 1491.

KEY MAP - 1" = 200'



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C5.1		

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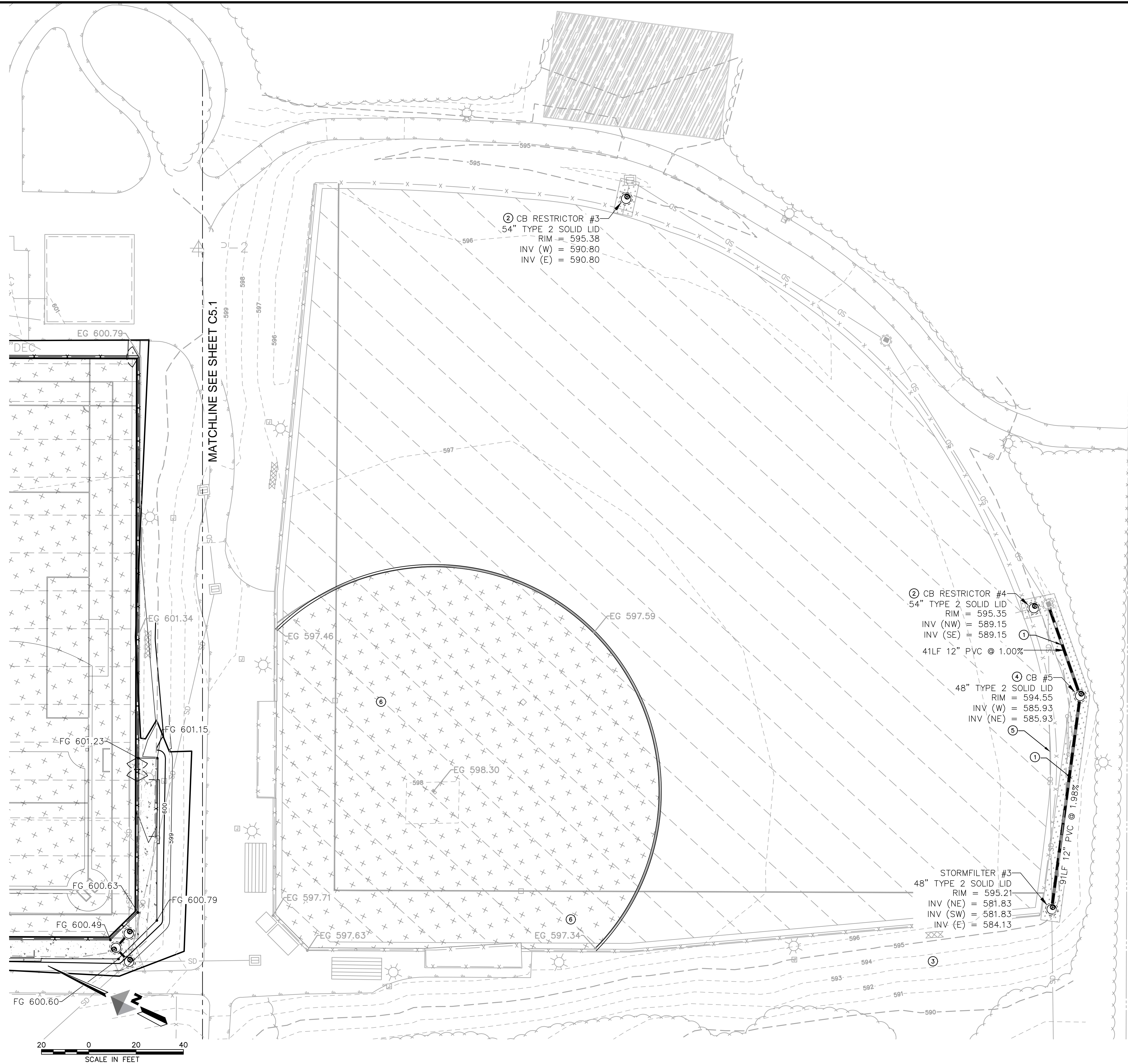
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Redmond North
LITTLE LEAGUE

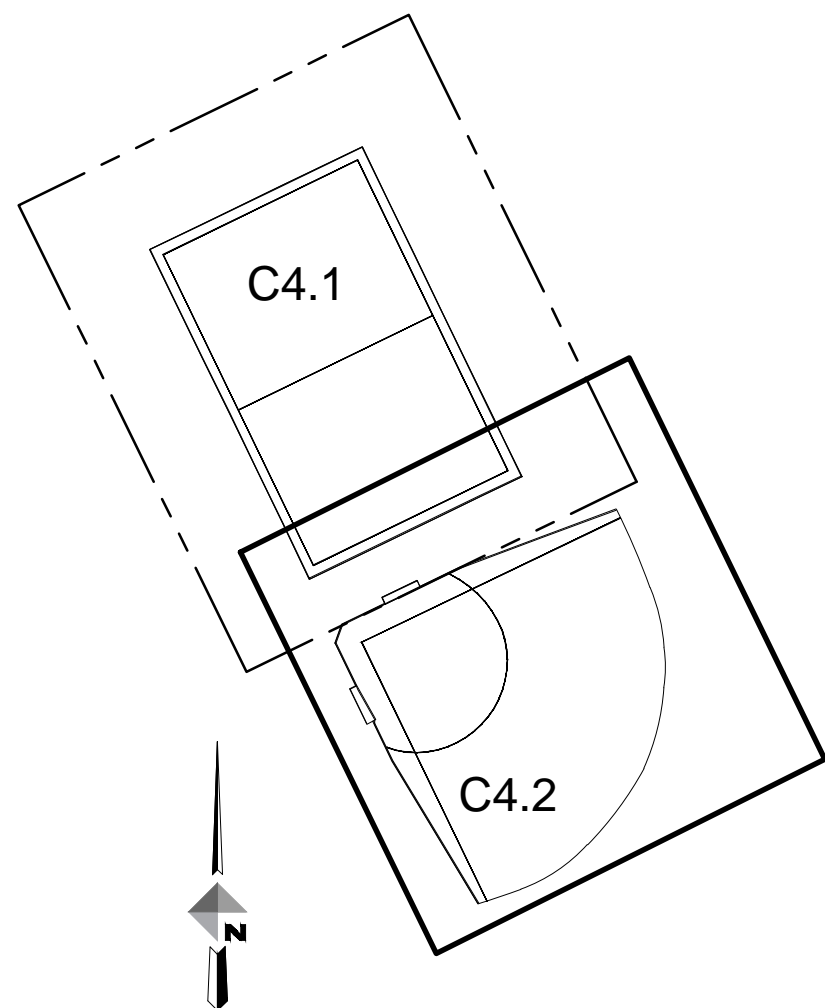
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GRADING & DRAINAGE - NORTH
REDMOND RIDGE FIELD CONVERSION

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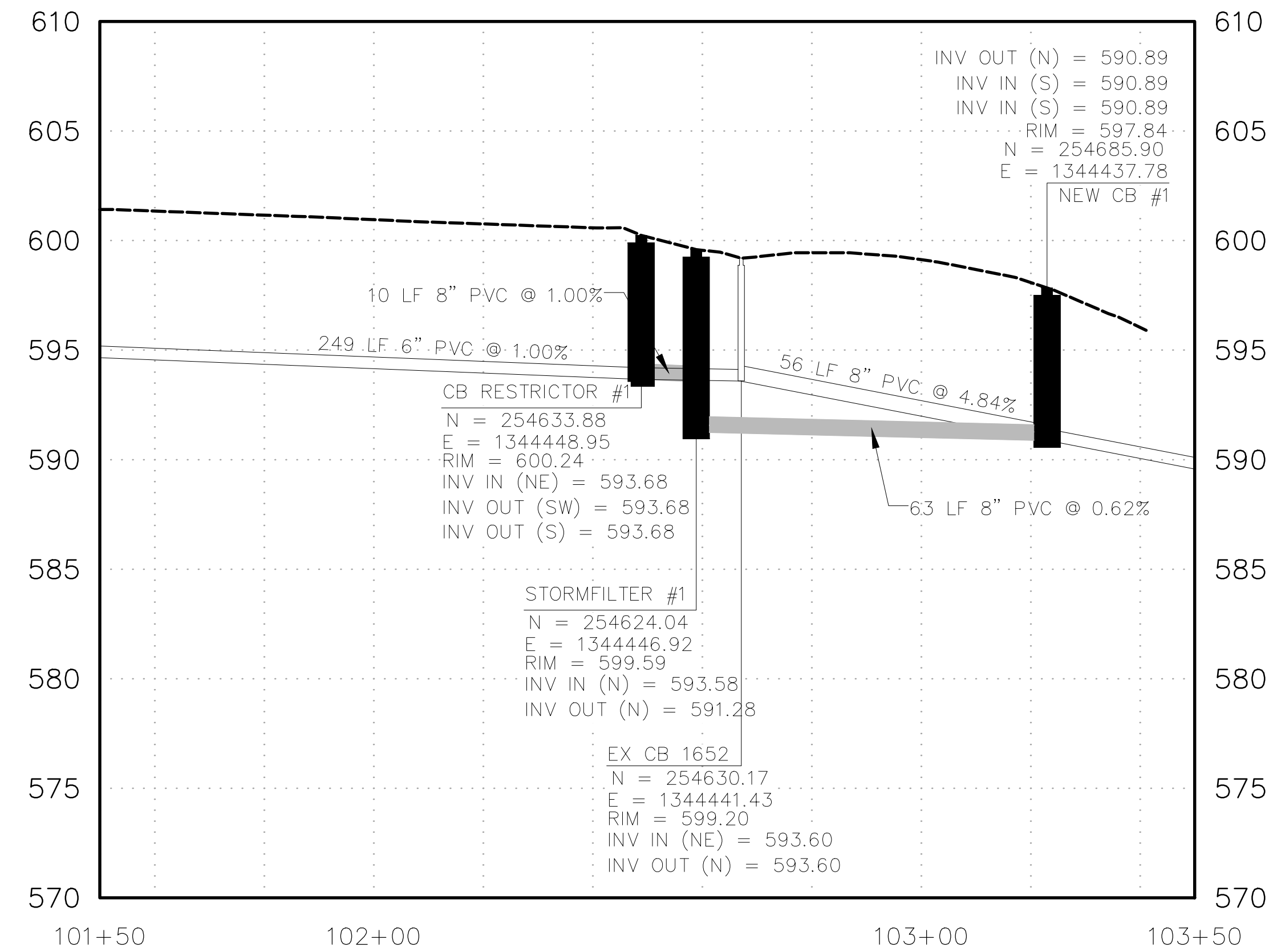


C5.2



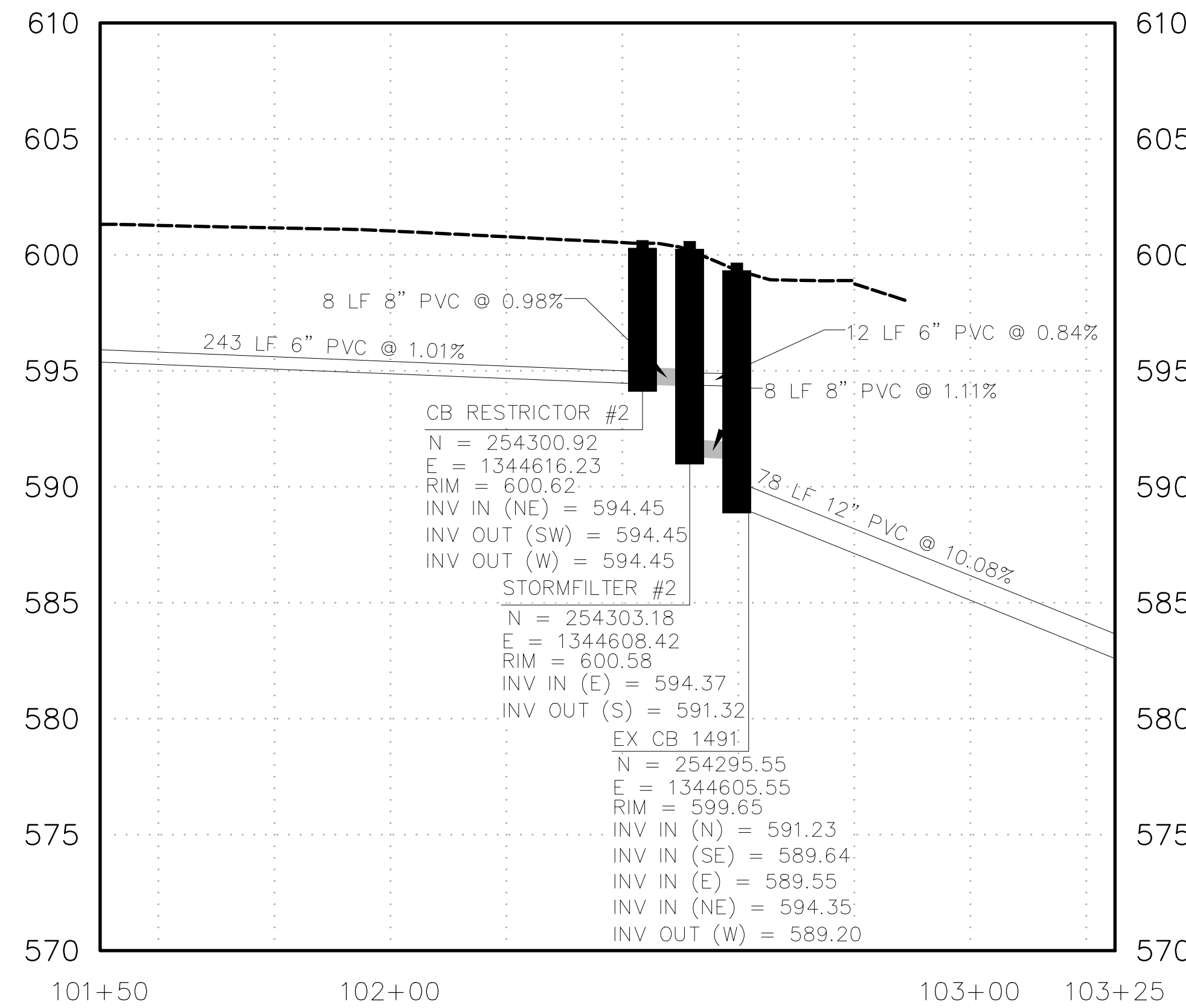
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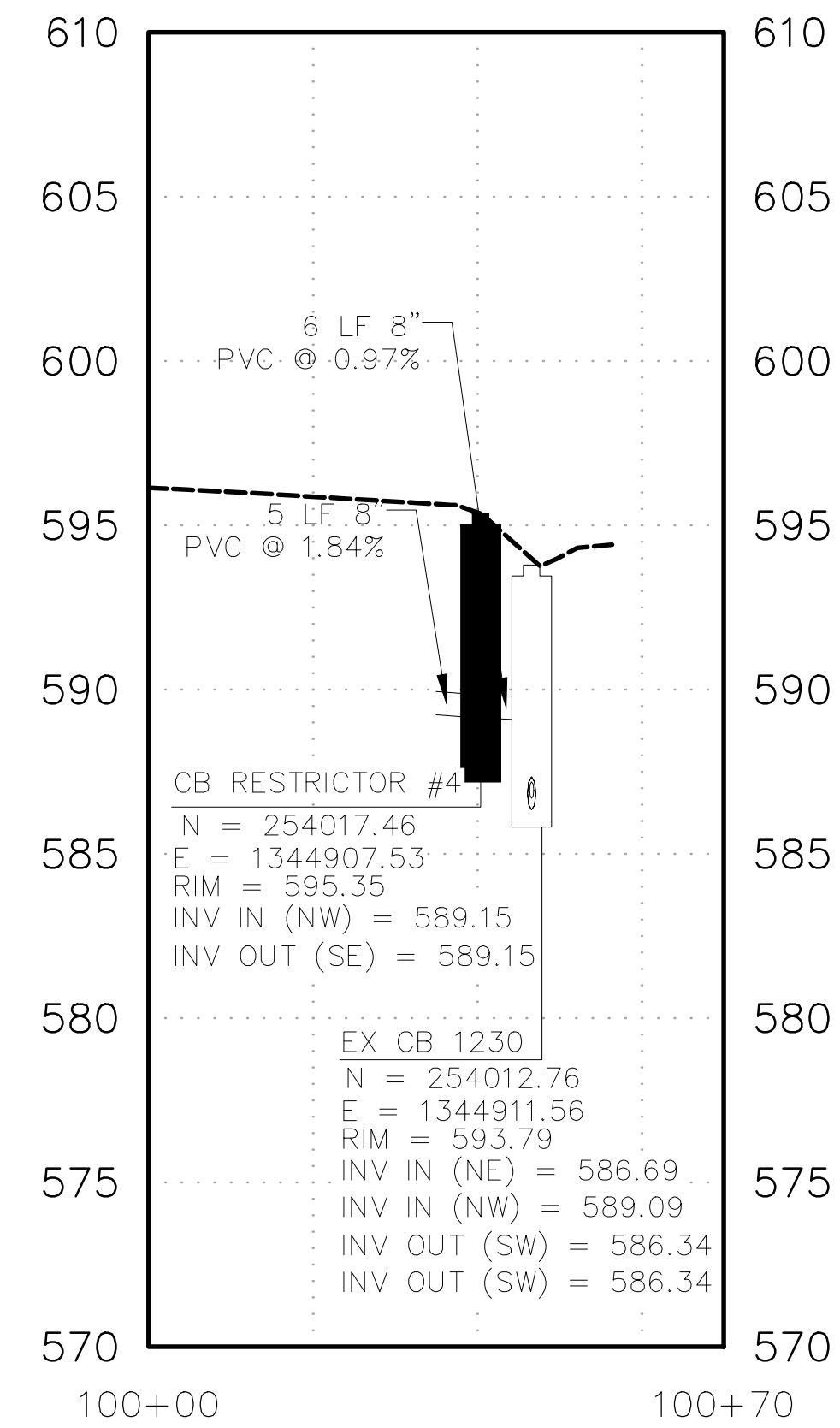
NORTH HALF OF SOCCER FIELD STORM DRAIN PROFILE

SCALE: 1"=20' H, 1"=5' V



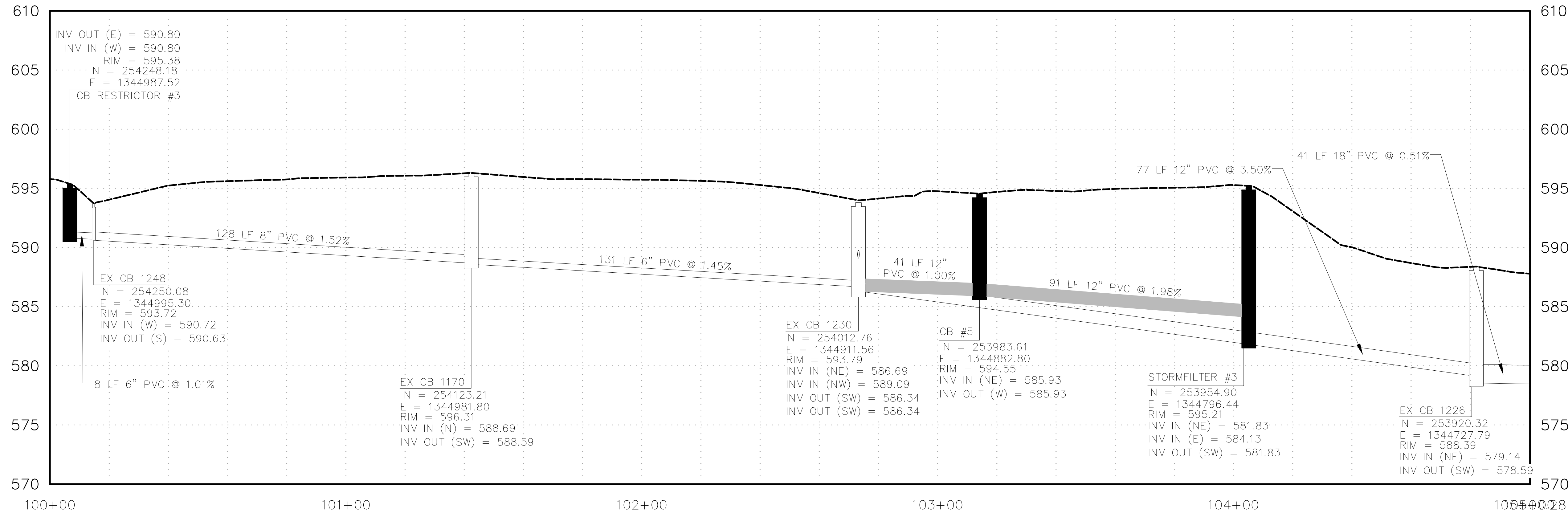
SOUTH HALF OF SOCCER FIELD STORM DRAIN PROFILE

SCALE: 1"=20' H, 1"=5' V



BASEBALL FIELD RESTRICTOR #4

SCALE: 1"=20' H, 1"=5' V



BASEBALL FIELD

SCALE: 1"=20' H, 1"=5' V

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STORM DRAINAGE PROFILES
REDMOND RIDGE FIELD CONVERSION

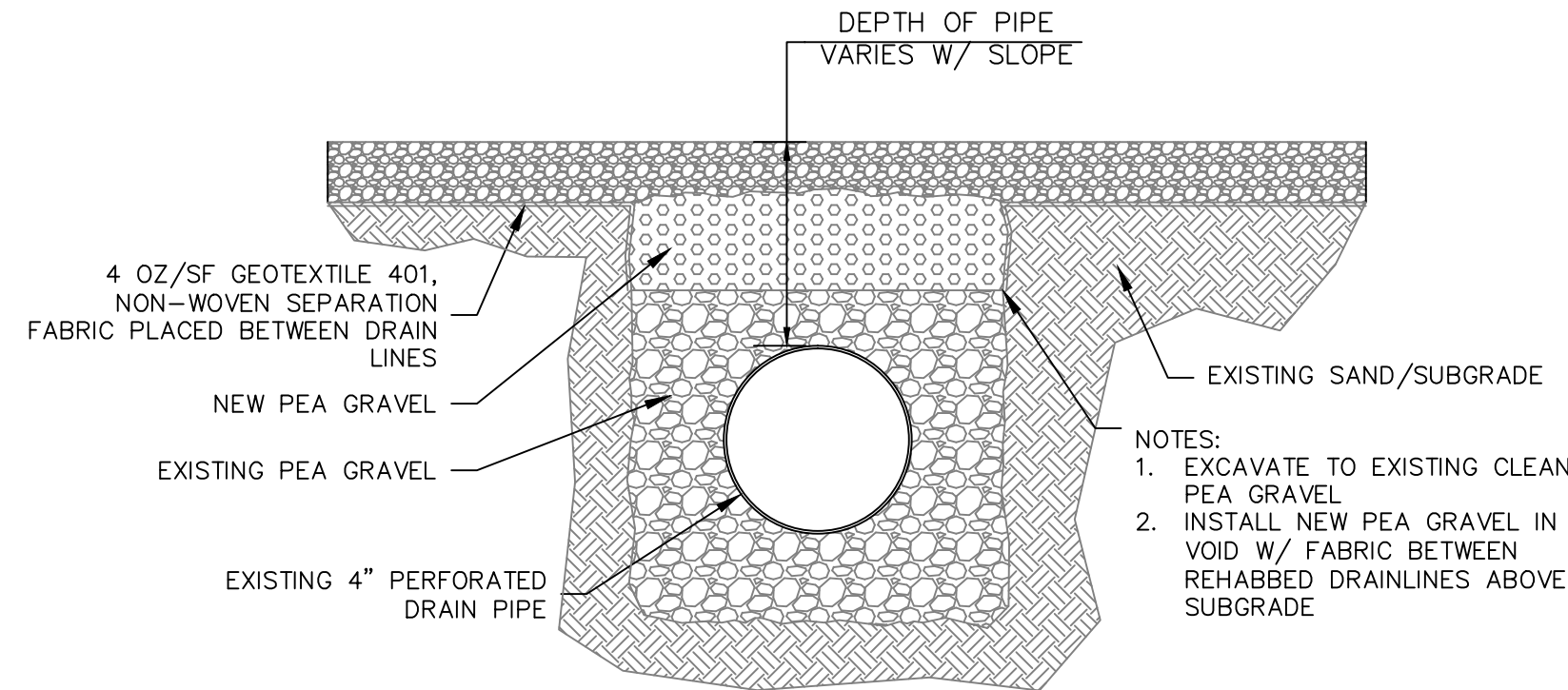
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22915 NE ALDER CREST DRIVE - REDMOND, WA

PROJECT	13427.01
DATE	11/30/2012

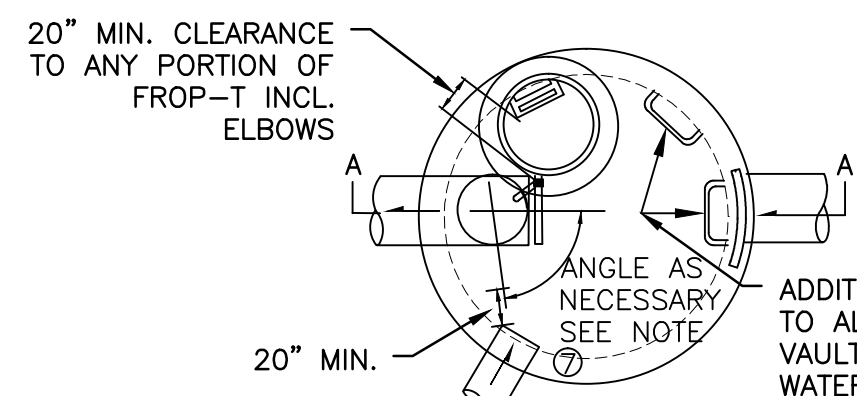
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SHEET
C5.3

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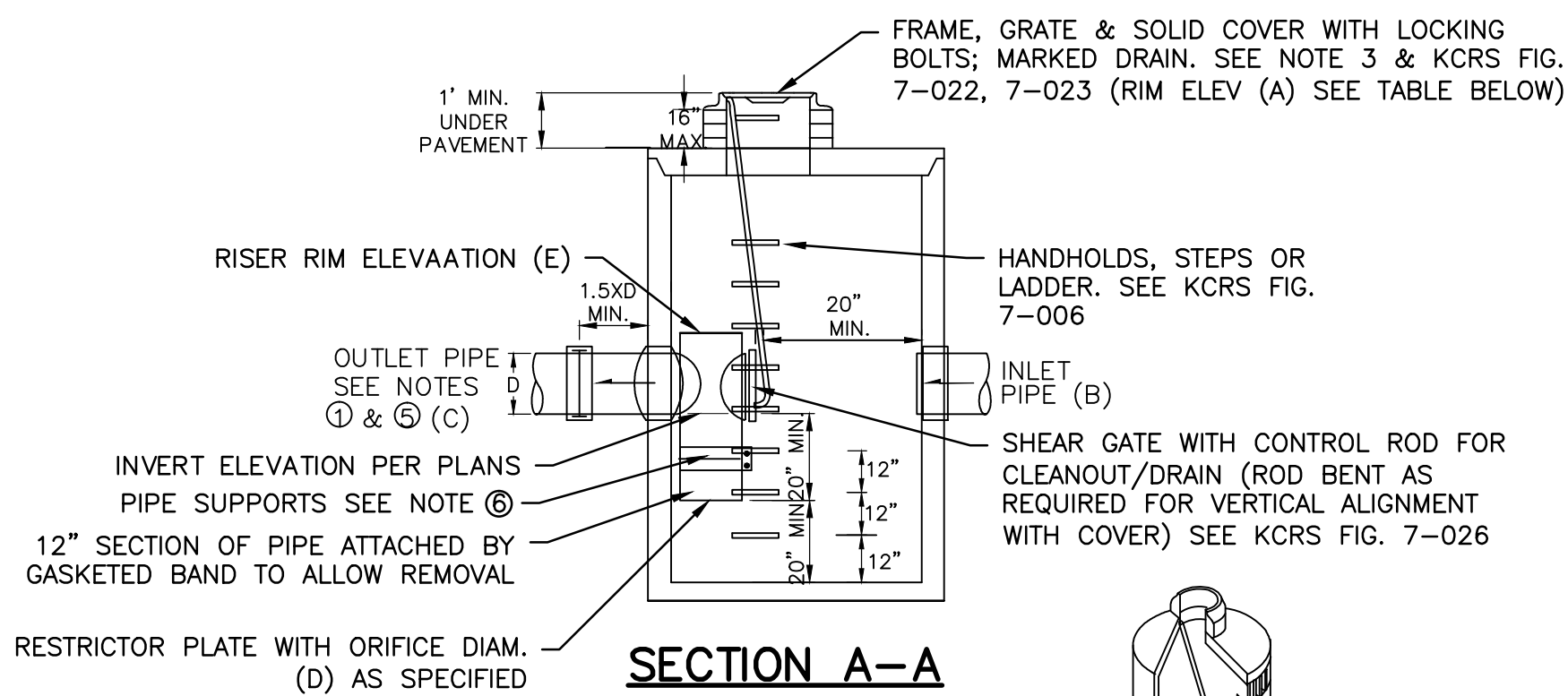
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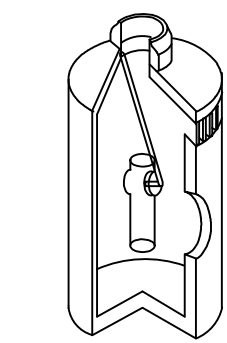
1 EXISTING DRAIN REHABILITATION
CS.4 NTS



PLAN VIEW



SECTION A-A



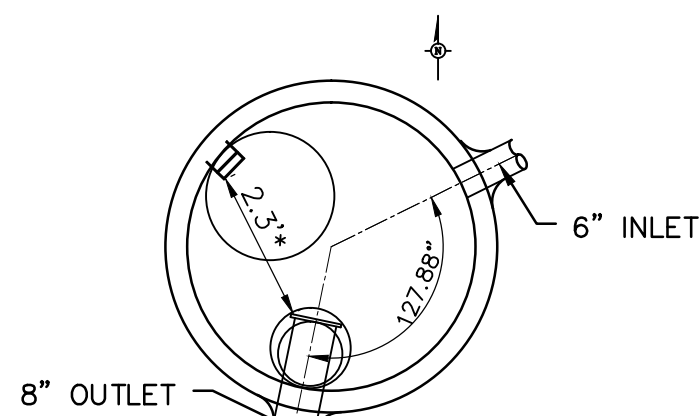
ISOMETRIC

NOTES:

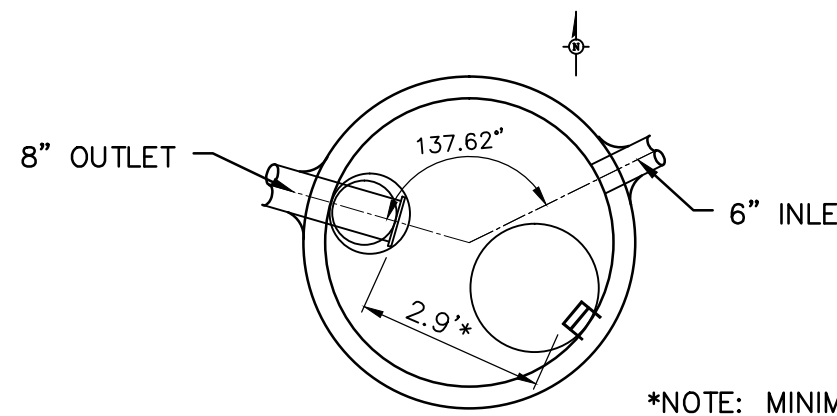
- USE A MINIMUM OF A 54 IN. DIAM. TYPE 2 CATCH BASIN.
- OUTLET CAPACITY: 100-YEAR DEVELOPED PEAK FLOW.
- METAL PARTS: CORROSION RESISTANT. NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME AND LADDER OR STEPS OFFSET SO:
A. CLEANOUT GATE IS VISIBLE FROM TOP;
B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE;
C. FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
- PROVIDE AT LEAST ONE 3 X 0.090 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 5/8 IN. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO M/H WALL (VERTICAL SPACING).
- LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MIN. CLEARANCE AS SHOWN.
- LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS OR VAULTS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.

CB RESTRICTOR #	CB RIM ELEV. (A) (IN FEET)	INLET IE (B) (IN FEET)	OUTLET IE (C) (IN FEET)	ORIFICE Ø (D) (IN INCHES)	RISER RIM ELEV. (E) (IN FEET)	WEIR (TYPE)	NOTCH ELEV. (F) (IN FEET)	NOTCH LENGTH, L (G) (INCHES)	NOTCH ANGLE (H) (DEGREES)
CB RESTRICTOR #1	600.24	593.68	593.68	0.91	594.50	RECTANGULAR	594.20	2	N/A
CB RESTRICTOR #2	600.62	594.45	594.45	0.81	595.27	V-NOTCH	594.95	N/A	65
CB RESTRICTOR #3	595.38	590.80	590.80	0.75	591.62	V-NOTCH	591.25	N/A	45
CB RESTRICTOR #4	595.35	589.15	589.15	0.81	589.97	V-NOTCH	589.60	N/A	45

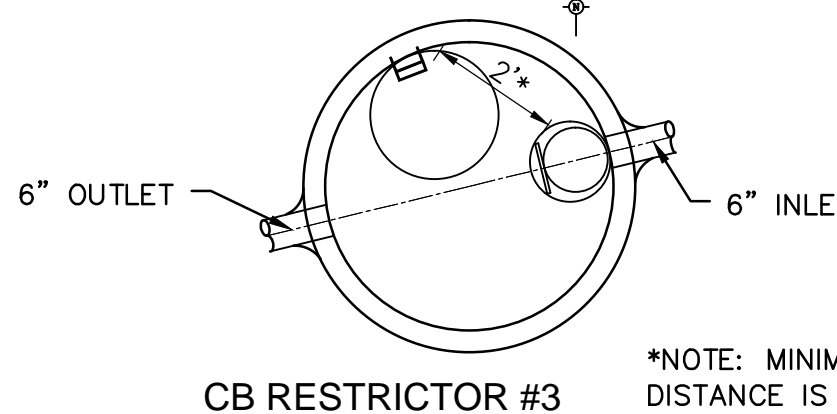
2 RESTICTORS, TYPE -2 54" FLOW CONTROL CATCH BASIN
CS.4 NTS



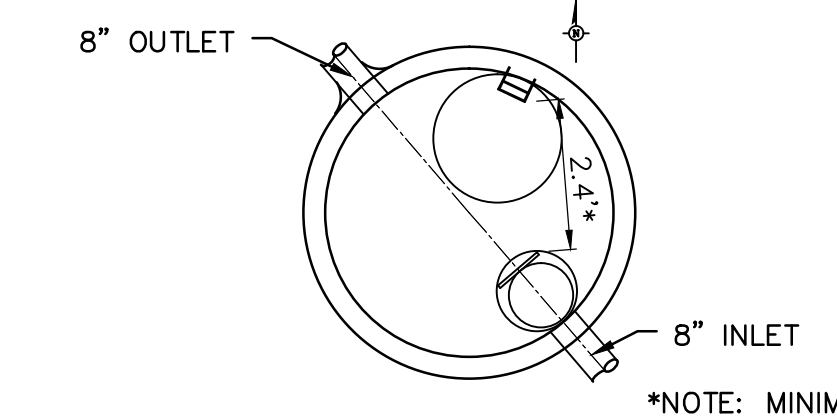
CB RESTRICTOR #1
NTS



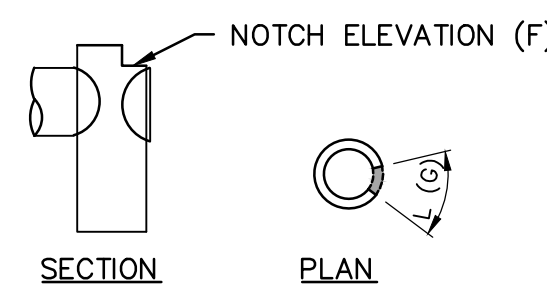
CB RESTRICTOR #2
NTS



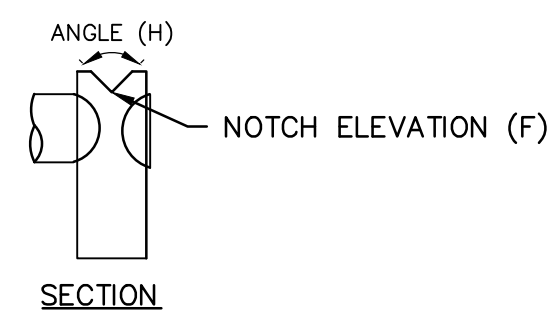
CB RESTRICTOR #3
NTS



CB RESTRICTOR #4
NTS



RECTANGULAR WEIR

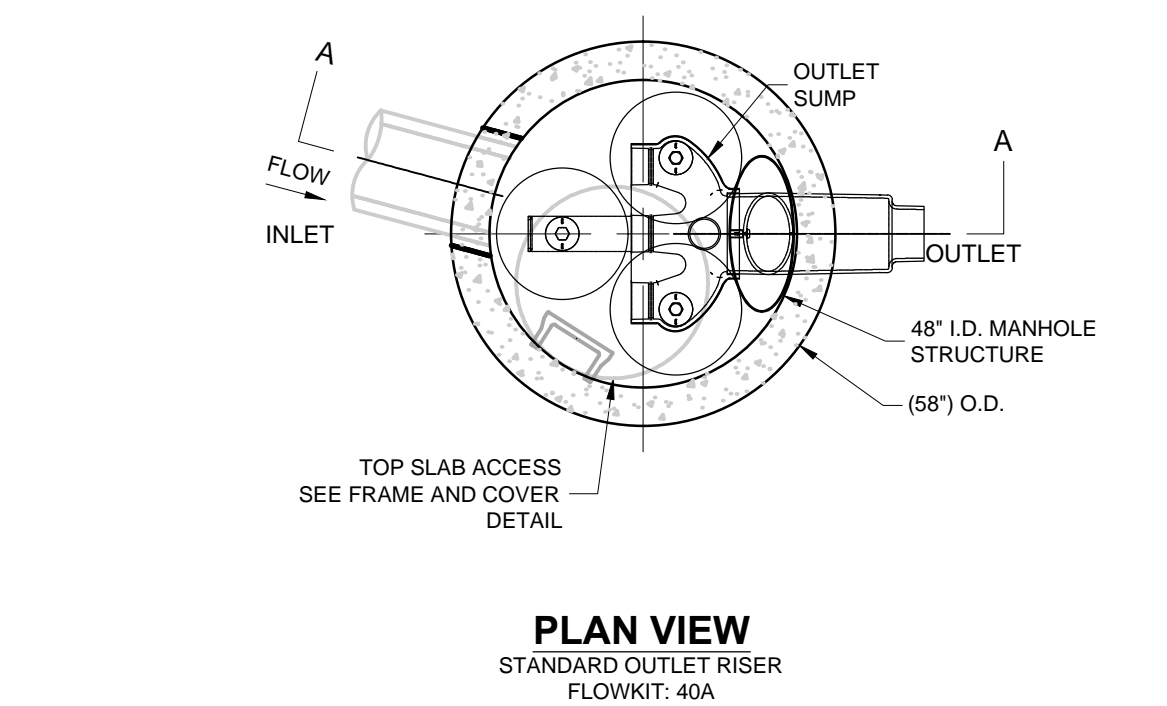


V-NOTCH WEIR

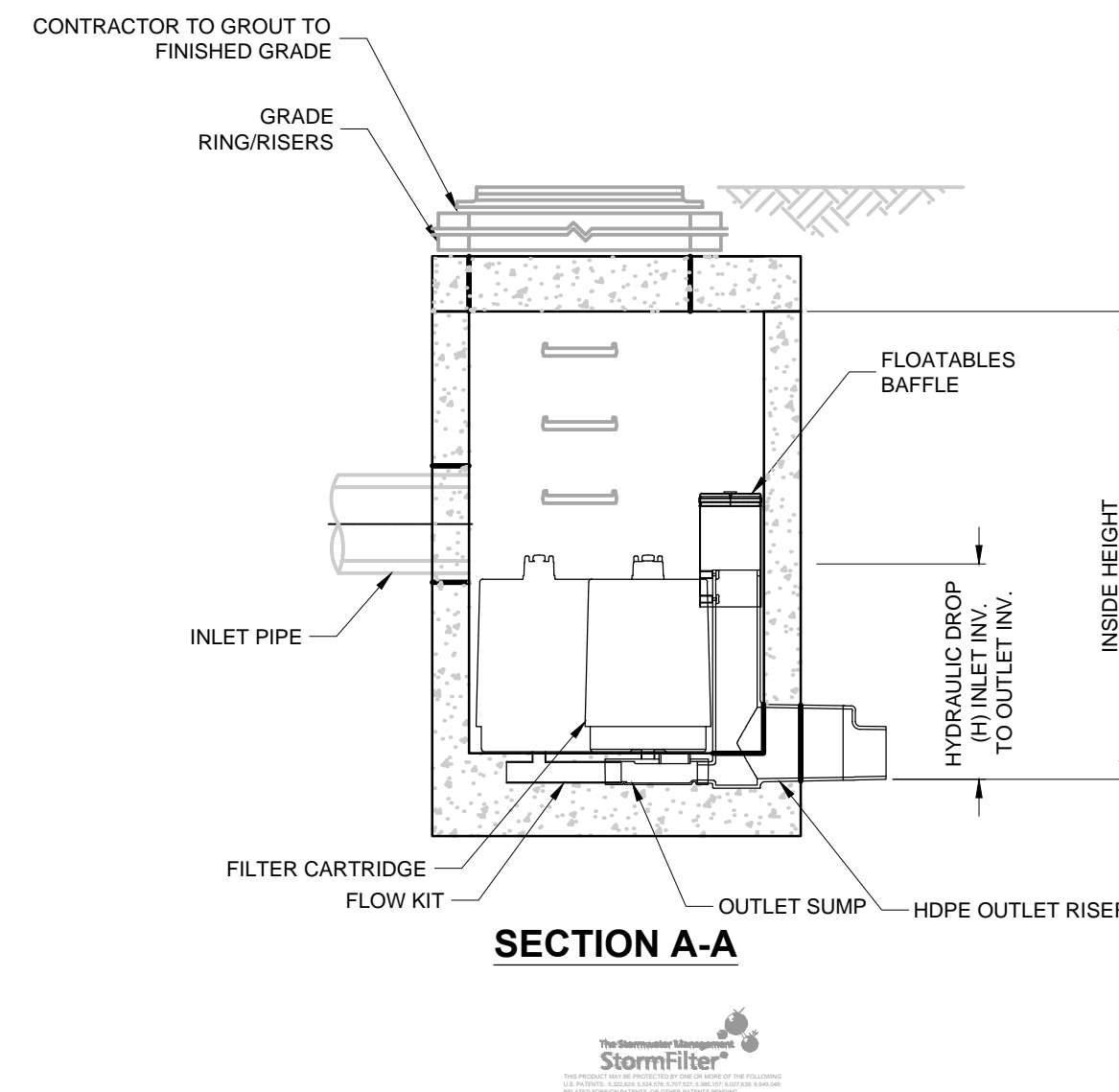
SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	STORMFILTER #1		
WATER QUALITY FLOW RATE (cfs)	0.020		
PEAK FLOW RATE (<1 cfs)	0.335		
RETURN PERIOD OF PEAK FLOW (yrs)	100		
# OF CARTRIDGES REQUIRED	2		
CARTRIDGE FLOW RATE (1.5 OR 7.5 gpm)	7.5		
MEDIA TYPE (CSF, PERLITE, ZPG)	CSF		
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	593.58	N/A	8"
INLET PIPE #2	N/A	N/A	N/A
OUTLET PIPE	591.28	N/A	8"
RIM ELEVATION	599.59		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	N/A	N/A	
NOTES/SPECIAL REQUIREMENTS: CARTRIDGE HEIGHT = 18"			

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	STORMFILTER #2		
WATER QUALITY FLOW RATE (cfs)	0.013		
PEAK FLOW RATE (<1 cfs)	0.080		
RETURN PERIOD OF PEAK FLOW (yrs)	100		
# OF CARTRIDGES REQUIRED	1		
CARTRIDGE FLOW RATE (1.5 OR 7.5 gpm)	7.5		
MEDIA TYPE (CSF, PERLITE, ZPG)	CSF		
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	594.37	PVC	8"
INLET PIPE #2	N/A	N/A	N/A
OUTLET PIPE	591.32	PVC	12"
RIM ELEVATION	600.58		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	N/A	N/A	
NOTES/SPECIAL REQUIREMENTS: CARTRIDGE HEIGHT = 27"			

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	STORMFILTER #3		
WATER QUALITY FLOW RATE (cfs)	0.029		
PEAK FLOW RATE (<1 cfs)	0.1540		
RETURN PERIOD OF PEAK FLOW (yrs)	100		
# OF CARTRIDGES REQUIRED	2		
CARTRIDGE FLOW RATE (1.5 OR 7.5 gpm)	7.5		
MEDIA TYPE (CSF, PERLITE, ZPG)	CSF		
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	584.13	PVC	12"
INLET PIPE #2	N/A	N/A	N/A
OUTLET PIPE	581.83	PVC	12"
RIM ELEVATION	595.21		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	N/A	N/A	
NOTES/SPECIAL REQUIREMENTS: CARTRIDGE HEIGHT = 18"			



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 40A



SECTION A-A

STORMFILTER DESIGN NOTES						
STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (4). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 4 CARTRIDGES.						
900' MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 GFS. IF THE SITE CONDITIONS EXCEED 1.0 GFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.						
CARTRIDGE SELECTION	27"		18"		LOW DROP	
RECOMMENDED HYDRAULIC DROP (H)	3.05'		2.3'		1.8'	
SPECIFIC FLOW RATE (gpm/sq ft)	2 gpm/sq ft	1 gpm/sq ft	2 gpm/sq ft	1 gpm/sq ft	2 gpm/sq ft	1 gpm/sq ft
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 39 SECONDS.
- SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
- CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES, CONTRACTOR TO REMOVE THE 8 INCH OUTLET STUB AT MOLDED IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



3 STORMFILTERS BY CONTECH
CS.4 NTS

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REV	DATE	DESCRIPTION
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BY	TLB

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8420 154th Avenue NE
425-888-2870
Redmond, Washington 98052
www.dowlhkm.com

PREPARED FOR:
Redmond North Little League
PO BOX 107, REDMOND, WA 98073-0107

DRAINAGE DETAILS AND NOTES
REDMOND RIDGE FIELD CONVERSION

PROJECT	13427.01
DATE	11/30/2012

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